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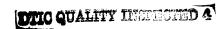
U.S. Army Medical Research and Materiel Command

Fort Detrick, Maryland 21702-5012

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FOREWORD

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In conducting research using animals, the investigator(s)
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Animals of the Institute of Laboratory Resources, national
Research Council (NIH Publication No. 86-23, Revised 1985).
For the protection of human subjects, the investigator(s)
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Involving Recombinant DNA Molecules.
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In the conduct of research involving hazardous organisms,
the investigator(s) adhered to the CDC-NIH Guide for Biosafety in
Microbiological and Biomedical Laboratories.
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Annual report, José Costa, M.D.

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Introduction

In Year 4 of The Program for Critical Technologies in Breast Oncology (PCTBO), we have expanded services that were initiated in July 1994 to establish a core technical and tissue procurement resource that: i) maximizes access to human breast tissues and tumor DNA for basic investigators; ii) facilitates the application of molecular technologies in clinical breast oncology; and iii) makes such technologies routinely available to clinical investigators. This program builds on Yale's existing Program for Critical Technologies in Molecular Medicine and the Tissue Procurement Shared Resource of the Yale Cancer Center, and complements in a rigorous and planned way the Yale Tumor Registry and Yale's Rapid Case Ascertainment System. Thus it makes possible for several resources to have a special focus on breast cancer and related diseases. The existence of a Breast Cancer Research Program (Dr. Michael Reiss, P.I.), developed with the resources of the Yale Comprehensive Cancer Center in 1995, increases the utilization of the PCTBO infrastructure to near maximum capacity.

Body of Report

We have organized the body of our annual report to follow the tasks delineated in the original proposal's Statement of Work: i) collection of samples; ii) establishment of a database; iii) preparation and distribution of samples; iv) development of asssays relevant to breast cancer.

Task 1) Centralize collection of fresh, fixed, and paraffin embedded breast tissue samples from patients treated at Yale New-Haven Hospital and other hospitals in Connecticut.

Year 4 1-a) Continue collection activities

During the fourth year of the program, we received reapproval from all of the hospitals in which we already had initial IRB approval, including reapproval from Yale's Human Investigation Committee for our parent protocol. We have strong and ongoing interactions with all of our Phase I hospitals. Phase II hospitals have, within our experience, proven to be a more challenging situation that we originally anticipated, partly because of the growing influence of managed care and other factors. Three of the Phase II hospitals on our original list are no longer exist due to mergers or bankruptcy. We have two Phase II hospitals on our tissue collection schedule. However, smaller numbers of patients, increased numbers of cases for which no excess tissue is available, and limited off-site hospital staff time for "non-essential" operations have combined to yield extremely small numbers of samples from our Phase II hospitals. Because of these facts, we made a final evaluation of the efficiency and cost-effectiveness for inclusion of the remaining, smaller, and much more geographically distant Phase II hospitals, and came to the conclusion that, at best, we would receive four or five samples per year from all remaining unenrolled hospitals. Because of such low anticipated yield in return for large amounts of time and energy in setting up and coordinating IRB approvals, training of hospital personnel, and scheduling of tissue collections on dry ice, we did not enroll the remaining hospitals.

The hospitals at which we have tissue procols for collection are listed in Tables 1a and 1b.

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Table 1a: List of Off-site Hospitals, Phase I

Hospital & City	Contact Pathologist/ Department Chair or HIC/ Collection Technologist (italics = updated information)	Date of initial IRB approval & last reapproval
Bridgeport Hospital, Bridgeport, CT	Gustave Davis, M.D. Gustave Davis, M.D.(IRB) Bonnie Yannessy	2/98
Danbury Hospital, Danbury, CT	Raoul Braza, M.D. Ramon Kranwinkel, M.D.(IRB) Mary Davis, Ph.D.	8/97
Greenwich Hospital, Greenwich, CT	Richard Eisen, M.D. Stephen Gray, M.D. Claire Arkemone, H.T.	6/98
The Griffin Hospital, Derby, CT	Stephanie Wain, M.D. Vincent deLuca, Jr. M.D. (IRB)	9/97
Hartford Hospital Hartford, CT	Martin Berman, M.D. Robert Siegal, M.D.	submitted 5/96, still under consideration
Hospital of St. Raphael, New Haven, CT	Paul Fiedler, M.D. Romeo Vidone, M.D. Gail Barricelli, M.T.	2/98
Norwalk Hospital, Norwalk, CT	Michael Bush, M.D. Eric Lazur, M.D. (IRB) Margaret Keane, H.T.	9/97
The Stamford Hospital, Stamford, CT	Patrick Broderick, M.D. Michael Parry, M.D. (IRB)	8/97
St. Mary's Hospital, Waterbury, CT	William Frederick, M.D. Dwight Miller, M.D.	8/97
The Waterbury Hospital, Waterbury, CT	Thomas Anderson, M.D.	8/97
Yale-New Haven Hospital, New Haven, CT	Darryl Carter, M.D. Jon Morrow, M.D., Ph.D. Leticia deDios, M.D.	2/98
Veterans Hospital, West Haven, CT	Robert Homer, M.D. Gary Stack, M.D. Leo Kelley, P.A.	2/98

Table 1b: List of Off-site Hospitals, Phase II

Hospital & City	Contact Pathologist/ Department Chair or HIC/ Collection Technologist (italics = updated information)	Date of initial IRB approval & last reapproval
The William H. Backus Hospital	Sa-id Esfahanian, M.D. Franklin Friedman, M.D. (IRB)	**
Bradley Memorial Hospital Southington CT	James Ford M.D.	**
Bristol Hospital Bristol CT	Leslie Kish M.D. Richard Dalsen, M.D. (Cancer Committee)	**
Charlotte Hungerford Hospital Torrington CT	Richard Gallagher M.D. Susan Pittman-Lowenthall (IRB)	**
Day Kimball Hospital Putnam CT	Paul Wong M.D.	**
John Dempsey Hospital Framington CT	Faripour Forouhar, M.D.	**
Lawrence & Memorial Hospital	Edwin Clayton M.D. Joan Blessing	9/97
Manchester Hospital Manchester, CT	Dennis O'Neill, M.D. Dennis O'Neill, M.D. (IRB)	submitted 5/96, still under consideration
Middlesex Hospital Middletown CT	Sebastian Gallo, M.D.	**
Milford Hospital Milford CT	Suri Pappu, M.D. John Walsh, (VP Admin)	**
Mount Sinai Hospital Hartford CT	merged with St. Francis Hospital	NA
New Britain General Hospital New Britain CT	David Krugman, M.D	**
New Milford Hospital New Milford CT	Prashant Rodrigues, M.D.	**
Park City Hospital Bridgeport CT	merged with Bridgeport Hospital	NA
Rockville General Hospital Rockville CT	John Kriz, M.D.	**

The Sharon Hospital Sharon CT	Rosalinda Parilla, M.D.	**
St. Francis Hospital	George Barrows, M.D. Ernesto Canalis, M.D. Donna Dooman, P.A.	8/97
St. Vincent's Medical Center Bridgeport CT	George Lowenski, M.D. Lorraine Carrano, M.D. (IRB)	**
Veterans Memorial Medical Center Meriden CT	Kyum S. Pyun, M.D.	**
Windham Memorial Hospital Windham CT	Nadia Nashid, M.D.	**
Winsted Memorial Hospital Winsted CT	bankrupt 1996	NA

**few cases expected from a small, fardistant location

Year 4-1b) Continue off-site training and monitoring of tissue collection personnel

We continue to use our defined protocols to obtain fresh frozen tissue. Given the present trend in diagnosis and therapy of breast masses we have taken two approaches. The first is to continue with an aggressive prospective acquisition of samples of tissue that are prepared and embedded in OCT medium such that frozen sections can be cut from the samples. If extra tissue is still remaining, additional aliquots are bulk-frozen in tissue cassettes in liquid nitrogen, and also, when requests are outstanding, collected in a fresh, viable manner. The larger tumors, from which "bulk" specimens are available, can be used for nucleic acid or protein extraction after grinding the frozen tissue under liquid nitrogen in a mortar and pestle to obtain a fine frozen powder. Both the fast freezing and optimal maintenance of the samples (e.g. always transported on dry ice) have enhanced nucleic acid stability.

The second approach we have taken is applicable to samples such as small biopsies for which excess tissue is often not available from a gross specimen. In these cases, we can obtain extra frozen sections at the time a clinical section is done during an intra-operative consultation. Once the pathologist has concluded the consultation on a frozen specimen, an extra 10 sections are cut and stored on slides that are kept frozen at -80° C for future use. The remainder of the frozen specimen is handled as usual by the pathologist. We should note specifically that these slides are handled in the same manner as are the larger samples: no research use is made of any material before at least one week has elapsed after the final pathology report has been issued.

The success of our efforts to collect sections and slides is reflected in the fact that, although we collected 193 cases of breast tissue this year (25% more than the 151 we collected last year), we were able to distribute approximately 688 samples from 109 cases, including about 600 samples of sections and slides. Without our preparation and distribution of sections and slides, we would have had to exhaust our entire bank of frozen breast tissues and would still not have met the research demand.

Task 2) Establish comprehensive database linked to the CTBO tissue bank & designed to support multidisciplinary studies that utilize tissue samples

Year 4-2a) Continue information collection as above at YNHH and at phase I hospitals (online database incorporating data items outlined, computer network interfaces, protocols, and procedures to assure collection of the information outlined).

In year 1 we established the protocols to implement the database as proposed in the original application. The data files were resident in a Macintosh PowerPC 7100 fileserver and were created using FileMaker Pro 2.0 software. With the release of FileMaker Pro version 3.0 in early 1996, we completely redesigned the database files to take advantage of the fully relational aspects of the new FileMaker version. This major re-working of the PCTBO's own database has been completed. Examples of some of the new tissue reports can be found in appendix 3.

To respond to the long term need to provide ease of access to data on all databases for use by researchers, we had done work with the Yale Comprehensive Cancer Center [YCCC] and Yale New Haven Hospital. When the reorganization of the Clinical Research Office [CRO] at the YCCC was completed in late 1995, we met with Drs. Lee Schacter and Daniel Zelterman of the CRO to define common goals and potentials for sharing information and resources between the CRO and our core facility of the PCTBO. At a meeting in January 1996, we explored the efficacy of implementing a data warehouse architecture, where one could define and regularly download

applicable data from existing systems onto data warehouse running Oracle or some other database product. This would allow users running database query software at their desktops to query information from the data warehouse, reducing demand on the programming resources of existing systems, including the Pathology Information System and the Yale-New Haven Hospital Tumor Registry.

In the past year, purchase of a multitasking computer with ethernet and TCP/IP capabilities and hard disk storage has been accomplished. Software for data storage was evaluated: Oracle Clinical was brought on-site for many months before the decisin was made that it would not satisfy the demands of the program. Instead, programming staff were recently hired to define, configure, maintain, and archive a custom database using Oracle, with Microsoft Access front-end. We continue to actively work with the Breast Cancer Research Program. They obtained funding to support efforts to retrieve patient demographic, treatment, and followup data. This activity will start in August 1997. We will take the opportunity to piggyback on and expand the scope of their project to include references to the breast tissue samples available through the PCTBO. This goal will be actively pursued in year four of the PCTBO.

Samples of the most recent (6/98) data entry screens for this patient database project are given in appendix 1. We have been actively working with Dr. Cynthia Brandt in the Yale Center for Medical Informatics to further refine the patient and tissue databases. Information collected includes: Demographics and epidemiologic information such as known risk factors and family history; pathology and staging; treatment (surgeries, radiation including response to treatment, chemotherapy/endocrine therapy including response to treatment); and periodic (every 3 months) updates on disease status.

In addition to meeting with the CRO, we also have had ongoing interactions with Yale New Haven Hospital. The hospital, for reasons of more efficient management, state reporting requirements, and the goal of daily updates from all areas of the hospital, is working towards combining data from all of its computers. This project is making progress even with limited resources, and although it is transaction-oriented and not designed for research use, the fact that longitudinal data tracking will be more easily accomplished can in fact be made to serve research use as well. Our meetings to date have proved quite productive. The hospital is still in Phase I of a three-phase plan and working on the emergency department, ambulatory surgery, and inpatient clinic records collection on a daily rather than monthly schedule. The data involved will include all doctors orders and the operating room schedules. Although the Yale Physicians Building (where many breast cancer patients are seen and treated) is not in their Phase I plans, these data will be included in Phase II. In the interim, we continue to actively collaborate with people from Hospital Management and Information Systems, and for the shorter term, we are discussing the possibilities of prospectively designing additional fields in the Clinical Archive database that will serve breast cancer research needs.

Year 4-2b) Expand comprehensive information catchment to include additional phase I & II hospitals.

With the continuation of tissue collection routines from phase I hospitals, we also remain successful in retrieving information about the tissue specimens. Pathology reports at a minimum are submitted for each specimen, and this information collection is coordinated and accomplished by the travelling associate, Bonnie Kaye. All hospitals from which tissue is retrieved are supplying this comprehensive information. However, after information is recorded, we "anonymize" the tissue and related information because all of our off-site IRB approvals are for use of anonymous samples only. Last year we developed a simple and easy-to-use format that enables both collection of information about the tissue samples, and fail-safe anonymizing of the samples.

Remote data collection continues to be possible via modem access to the PCTBO FileMaker Pro database through AppleTalk Remote Access software. Appropriate security precautions have been implemented. We continue to collect Pathology Reports from sites, however, due to the limited time commitment that off-site hospital staff can make as the demands of managed care increase. The feasibility of direct downloading of data from pathology reports into the PCTBO database continues to be studied. The Pathology Department will upgrade to a new Pathology Information System in the second half of 1998, and direct data transfer will probably follow shortly thereafter. In the interim, copying and pasting of relevent data is utilized, and will probably remain the basis for most of our data acquisition, since this method allows human review of appropriate information entering the database.

Task 3) Prepare and distribute breast tissue samples from the CTBO repository to investigators

Year 4-3a) Continue tissue and DNA/RNA collection and distribution

Protocols for tissue request and distribution continue to function well. In cooperation with the Yale Human Investigation Committee, we have designed a specific approval form to supplement the information and service request forms already in use. The new form (see appendix 6) gives all the useful infomation that we require in order to satisfy the HIC approval given to investigators to receive patient tissue. We continue to work closely with the Yale Human Investigation Committee to insure that all programs involving research use of samples of archival or fresh frozen human breast tissue are channeled through the PCTBO. As we expected, as information is disseminated about our bank, frozen samples are increasingly being requested.

Extraction of DNA from frozen sections and from archival paraffin tissues continues to be routinely done in our laboratories. Extraction of standard quality RNA from thick (10-20 μ m) frozen sections (and in some cases from paraffin blocks) is also routinely accomplished. Given the minimal size of the breast biopsies and the lesions contained in the tissue, collection of very high quality RNA is limited to large tumor specimens.

Over the past year of collection (July 1997 to June 1998), we have obtained 1803 parts from breast cases, drastically up from the 589 parts collected in year 1, and even increased over the 1016 parts collected in year 2 and 1704 in year 3. The major reason for this increase continues to be the fact that frozen section slides are collected at the time of diagnosis, and held in the bank until the case is signed out. A detailed list of cases collected is included in appendix 2.

Collections of excess breast cells from the Cytology section of the Department of Pathology was continued in collaboration with Dr. David Rimm, cytopathologist. See appendix 3 for list of these specimens. The excess volume of fine needle aspirations (collected with a Cyctec apparatus) have been stored and catalogued, and are available for research use. This new source of breast cells is proving to be of enormous value.

Distribution of breast tissues and tissue products has occurred from two different modules this year: tissue distribution from all frozen cases collected previously are summarized in the appendix 4 report "Tissue Distribution," and total about 700 samples. An additional distribution of breast specimens, of approximately one-third of the 15,653 tissue products produced by the Research Histology component of the PCTBO, are from paraffin breast samples, and are not listed in this report. The large number distributed from previously banked samples only serves to emphasize the enormous power of the system of centralized collection and critical distribution of only those types and amounts of tissues actually needed by each investigator. The fact that 760 patient cases originally collected still have some tissue left in the bank represents a dramatic increase in numbers available for further research.

Year 4-3b) Complete inventory and review of paraffin archive, and their indexing to CTBO database (Total paraffin collection > 1 million blocks)

With our continuing work on the resource of archival paraffin specimens, the paraffin archives themselves have been substantially improved. Last year we successfully finished the complete reorganization of over 3 million paraffin blocks, physically sorted and refiled all blocks, and consolidated the warehouse locations of the paraffin blocks from 3 separate sites to 2 closer, climate-controlled sites. These overall improvements have made a huge difference in ease of use of this most valuable resource, and is reflected in the large number of recuts requested from the blocks.

Of 900,000 cases cases available in paraffin from the pathology archives, data from the Yale Tumor Registry indicate that 10,750 are of breast cancer, including both invasive and in situ. In the past year, we have identified specific computer-based pathology accession numbers for the remainder of these not identified on the computer last year. The same report definitions as listed in last year's report were used for the completion of this task. We completed the process of identifying specific blocks from each case in which breast cancer is present. This labor- and time-intensive process was started with identification of ductal carcinoma in situ cases, and later moved to invasive cancer. For this, our work has been much easier since the invasive tumors tend to be much larger than the in situ carcinomas we reviewed for the last report. We review pathology reports to find the designated tumor block. Reliance on the path report for tumor ("T") or primary tumor ("P" or "PT") block designations is sufficient for most of the invasive cases.

Year 4-3c) Continue to advertise availability of breast cancer tissue for research.

The Yale Comprehensive Cancer Center's Breast Cancer Research Program meets on a monthly basis for presentation of research seminars and ongoing communication among all breast cancer researchers at Yale School of Medicine, Yale University, and Yale-New Haven Hospital. At these monthly gatherings we continue to present information about the currently available breast tissue (frozen and paraffin-embedded), as well as general information about the ability to set up prospective collection protocols and our interface with the Yale Tumor Registry for identification of breast cancer cases. The Program for Critical Technologies World Wide Web page (http://info.med.yale.edu/pathol/crittech/ct.htm). We have received inquiries from researchers about our resource, and have entered into an agreement with a researcher in California to provide samples from over 200 of our breast cases, should she receive funding. All appropriate administrative requirements, including IRB approvals and a Material Transfer Agreement (see appendix 11), have been completed. We expect ongoing inquiries about our resource. Because of the tissue we have available (see appendix 5)—760 cases, and over 5000 samples—and because we provide usually provide portions of the samples rather than whole tissues, we expect to be able to supply most of the breast cancer researchers who approach us.

Task 4) Develop and offer on a minimal fee-for-service basis routine molecular and histologic tissue analyses of relevance to breast cancer. Of particular interest are assays that can be carried out on minimal tissue samples.

Year 4-4a) Continue to offer routine analyses [assays from previous years: p53, prad, ras, neu, microsatellite repeat variability, histochemistry and immunohistochemistry].

The detailed methods developed in year 1 and reported in our annual report of July 1995 have been standardized for routine performance upon request of investigators. These include a functional

assay for p53, PCR analysis of PRAD-1 (Cyclin D1), assay for NEU oncogene function, Somewhat surprisingly, researchers most often request immunostains for various oncogenes and tumor suppressors, including p53, neu, alpha-catenin, E-cadherin, and bcl-1/prad-1, rather than PCR-based assays. We have worked extensively on further refinement of immunostaining protocols, including specific work to adapt and optimize use of commercially-available antibodies on paraffin-embedded tissues. Often these antibodies have not been tested on paraffin sections, and we have been successful in a number of cases. Two protocols were very effective: the use of recent antigen-retrieval method of pressure-cooking, and use of a commercially available "one-step" method of staining (Dako EnVision system, antibody and HRP coupled to an inert polymer backbone; or "universal" secondary with poly-HRP). Both of these techniques can be applied to any immunohistochemical staining protocol. Pressure-cooking can also be utilized in immunoblots.

Year 4-4b) Establish protocols for analysis of at least three additional genes as noted in Table 1 or for other candidate genes as they become recognized

As noted above, because most investigators are interested in immunohistochemistry-based assays for changes in oncogenes and/or tumor suppressor genes, in this fourth year of the project we continue to concentrate on this type of molecular analysis. We currently have protocols for use of either commercially-available or lab-made antibodies for a wide range of proteins implicated in breast cancer, including p53, neu/erbB2 including one specific for the biologically active phosphorylated form of the protein), estrogen receptor, progesterone receptor, alpha-catenin, E-cadherin, and DCC. In the past year we have critically examined antibodies newly available for p53, neu/erbB2, c-met, and various angiogenic factors including VEGF and FGF. We analyzed and compared commercially available antibodies for use on paraffin sections.

We tried different antibodies, and several antigen retrieval methods including a microwaving based protocol (using a number of different incubation solutions) and a pressure cooking protocol (using a citrate solution). We found the pressure cooking protocol to enhance the staining intensity without causing previously negatively characterized specimens to appear positive. Unlike the Ab-1 which we had been using for neu/erbB2, the antibody cb-11 does not require pressure cooking pretreatment, and we have simplified our protocol for that antigen.

Year 4-4c) c) Continue to advertise these services to breast cancer investigators as above.

Although at first it might seem that "routine" immunostains for breast tissues would not cause much response among investigators, the opposite is in fact true. We have advertised our immunostaining services, and many researchers have expressed interest in the newly developed and optimized ER, PR, p53 and neu/erbB2 stains for their breast tissues. As noted above, are constantly identifying and evaluating new antibodies and staining protocols so that we may offer state-of-the-art immunohistochemistry to breast cancer researchers.

Conclusions

The fourth year of support for the Program for Critical Technologies in Breast Oncology has seen many encouraging developments for this important core facility. We have increased the numbers of off-site hospitals involved in the Program. We finished conversion of a database uniquely suited to our collection, assay, and distribution of tissue products along with anonymous information describing the tissue samples. We collaborated with the Breast Cancer Research Program to obtain patient information for the tissue samples we hold. We continue to work intensely and collaboratively with many different parts of the Hospital, Medical School, University, and Cancer Center to streamline efficient data collection and access. Our numbers of collected breast tissue

samples again more than doubled in the past year, and we have distributed more than 14,000 tissue products since the start of the Program.

We are in the fourth year of collecting and distributing breast cytology specimens, a tissue source not widely available at any institution. We have completely reorganized more than 3 million paraffin blocks so that easy, efficient access is a rule rather than an exception, and have identified all computerized breast cases with malignancies for which blocks are available. We have expanded the research community's knowledge of and requests to the PCTBO for breast tissue products and related clinical information about the samples. We continue to develop translational research, moving research assays closer to clinical utility.

In the future, we will continue in the forward direction toward the goals of the PCTBO. The PCTBO continues to be enthusiastically received by the research community, and is serving as a resource and model for other academic centers' efforts in setting up similarly successful programs.

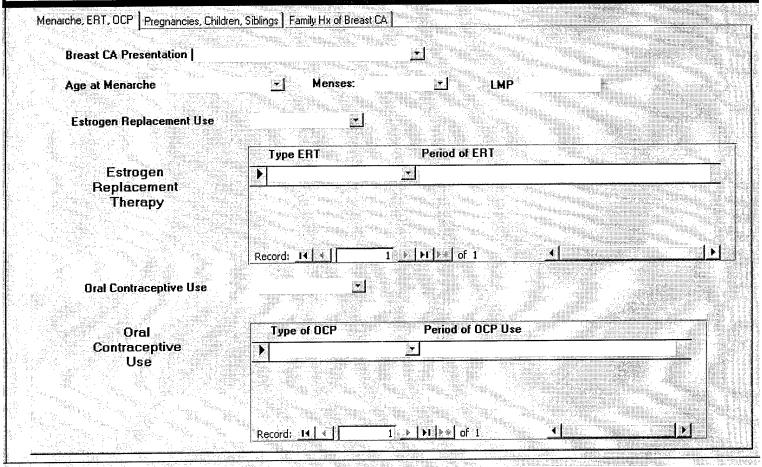
Appendices

Appendix 1: New data entry screens and collection sheets for patient data



Breast Cancer Research Program

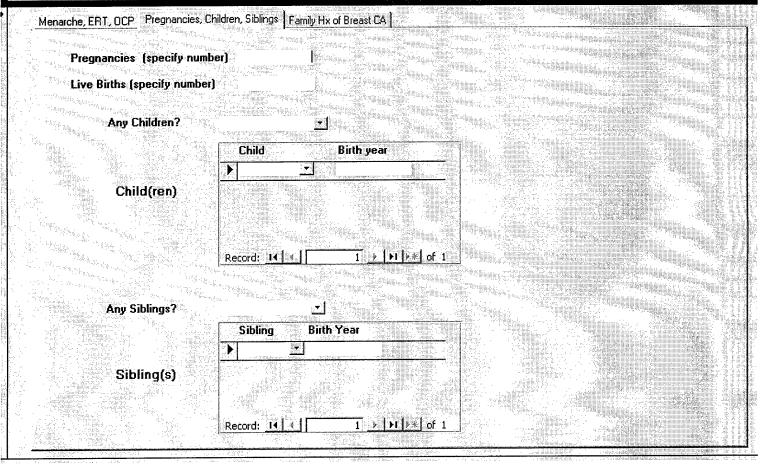
Patient Medical History (Related to Breast Cancer)

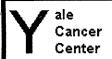




Breast Cancer Research Program

Patient Medical History (Related to Breast Cancer)





Breast Cancer Research Program

Patient Medical History (Related to Breast Cancer)

Relative with Breas	I CA Age of Diagno:	Relative at Currer sis of Breast CA	nt Status Age of	Death	
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			MPDD 1755 daga sebagai 1555 Seberangan sebelah sebagai 1666 - Seberah		
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History of Neoplastic		ers nammunen, 656 auslin Prava — em escala a de e e e e e e e e e e e e e e e e e	en e	т, ч ы түү ч үлжибананы прийбайний	**************************************
Disease(other than					

Patient Medical History (Related to Breast Cancer)

Italicized items are not optional.
Patient Medical History (Related to Breast Cancer)
Age at Menarche
[] 10 or younger
[] 13
[] 14
[] 15
[] 16 or older [] Missing data
[] Unknown
[] Onknown
Menses:
[] Regular
[] Irregular
[] None
Missing data
[] Unknown
••
LMP:
Pregnancies (specify number):
Live Births (specify number)::
The same of The same
Estrogen Replacement Therapy
[] yes
[] Unknown
Oral Contraceptive Use
[] yes
[] no
[] Unknown
Children?
[] yes
[] no
[] Unknown
Siblings?
[] yes
[] no
[] Unknown
ra -
Breast CA Presentation
[] palpable mass and mammography
[] mammography only
[] palpable mass only
[] unknown

INDUCT	Typ	e	er	t
--------	-----	---	----	---

OCP Type

Type of OCP	Description of OCP use

Birth Yr of Children

Type of Child	Birth year
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	

Sibling

Sibling	Birth Year
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	<u> </u>
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	

Family History of Breast CA

Relative with Breast CA	Age of Relative at diagnosis of Breast CA	Current Status	Relative with Breast CA age of death
			
			
			

	Chaines	for	Current	Status.
1	i noices	TOr	Current	Maius:

- 1. Alive, No evidence of Disease
- 2. Alive, with disease
- 3. Alive, disease status unknown

- 4. Dead, without disease
- 5. Dead, with disease
- 6. Dead, disease status unknown
- 7. Lost to follow-up

PMH Other	
[] <i>No</i>	
[] Yes	
[] Unknown	
PMH Other description:	

History of Neoplastic Disease(other than present)	!
[] <i>No</i>	
[] Yes	
[] Unknown	
Neoplasms (hist) description:	

Cancer Center	Research Program	Pathology Re	port		
Tissue/Notes Grades/St	ages DNA Index				
Pathology #		Accession Date	Sign out Date		
Surgeon		Pathologist			
Tissue Source					
	Part: Gro	ss description of Tissue			
Re	cord; 14 1	<u>≻ [>L</u>]>∗] of 1			
Final Diagnosis		Note		film	\$ 11 19 \$00 White \$ 7.2 \$ 11 11 1
# Nodes Examined					
# of Nodes Positiv					
Size of Tumor (cm)					
Margins of excision			······································	The second distribution of the second distributi	

Breast Cancer

ale Cancer Center	Breast Cancer Research Program	Pathology Report	
Tissue/Notes Grades/St	ages DNA Index		
Breast	CA Histological grade		
Bi	east CA Nuclear grade		
Breast CA Cum	ent Pathological Stage		
Estrogen	receptors F	Progesterone receptors	
H-score (0-1		core (0-100)	
% Positive (0-1 (pmol/)		sitive (0-100) (pmol/ng)	
T Stage			
N Stage			
M Stage			

Cancer Center	Researcn Program	Pathology Report	
Tissue/Notes Grades/Stages	-DNA Index		
え Cells Diploid			
G0-G1 Diploid (%)			
S Diploid (%)			
G2-M Diploid (%)			
≈ Cells Aneuploid			
GD-G1 Aneuploid (%)	Angele and the transfer of the Samone Committee of the Samone of the Samone Committee of the Samone Co		anandawa kampuntun 12. ang sa Alambaka kwasa kampunta ang da
S Aneuploid (%)	ogga a la jaja tin 1856 kielikili 1856 kalaini 1865 talini 1866 talini 1866 atria Alaga		
G2-M Aneuploid (%)			Mick Commission
	DNA Index (D		
	Coefficient of Variation (C)		
and the bound of the Base		程 (September 1997) Annual Appendix Ap	

Breast Cancer

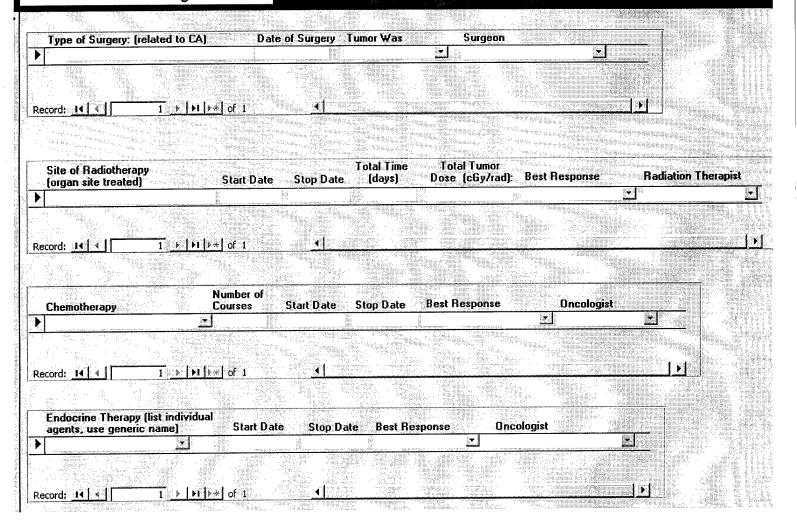
Pathology Report

Italicized items are not optional.
Pathology Report
Accession Date:
Sign out date:
Pathology Report Pathology Number:
Surgeon:
Pathologist:
Pathology Report Tissue Source:
Final Pathology diagnosis:
Breast CA Histological Grade
N. J J.
Nuclear grade
Breast CA estrogen receptors - H-score:
ER % Positive (0-100):
Breast CA estrogen receptor (fmol/mg):
Breast CA progesterone receptor - hscore (0-100): PR % Positive (0-100): Breast CA progesterone receptor -fmol/mg:
Breast CA Current Pathological Stage [] NED [] 0 in situ carcinoma [] I invasive, LN negative [] II invasive, LN positive [] IIIA locally advanced, resectable [] IIIB locally advanced, non-resectable [] IV metastatic [] Unknown
Pathology report note: T Stage [] TX Primary tumor cannot be assessed [] T0 No evidence of primary tumor [] Tis Carcinoma in situ: intraductal CA, lobular CA in situ, or Paget's disease [] T1 Tumor 2 cm or less in greatest dimension [] T2 Tumor more than 2 cm but not more than 5 cm [] T3 Tumor more than 5 cm in greatest dimension [] T4 Tumor of any size with direct extension to chest wall or skin
[] 17 Tuntor of any size with an extension to chest wan or shin

[] N0 No re [] N1 Metas [] N2 Metas	onal lymph nodes cannot be assessed egional lymph nodes metastasis stasis to movable ipsilateral axillary lymph node(s) stasis to ipsilateral axillary lymph node(s) fixed to one another or to other stasis to ipsilateral internal mammary lymph node(s)
[] M0 No di	ence of distant metastasis cannot be assessed istant metastasis ınt metastasis (includes metastasis to ipsilateral supraclavicular lymph node)
# Nodes Exan	nined:
Margins of ex [] positive [] negative [] not appli [] unknown Size of Tumor # of Nodes Po	cable (cm): ssitive:
Label	Gross description of Tissue
Part 1:	
Part 2:	
Part 3:	
Part 4:	
DNA	
% Cells Diplo	id:
G0-G1 Diploi	d (%):
S Diploid (%)	
	<i>l</i> (%):
% Cells Aneup	ploid:
G0-G1 Aneup	loid (%):
S Aneuploid (S	%):
	oid (%):
DNA Index (D	
Coefficient of	Variation (CV):

ale Cancer Center Breast Cancer Research Program

Surgery, Radiation, Chemotherapy, Endocrine



Surgery, Radiation, Chemotherapy, Endocrine

Italicized items are not optional.

Surgery Related to CA

Date of Surgery	Type of Surgery:	Outcome of Surgery:	Surgeon
//			
//			
/			
//			

Choices for Outcome of Surgery::

- 1. Biopsied
- 2. Resected
- 3. Partially resected
- 4. Not resected
- 5. Not found

Radiation Therapy

Therapy Start Date	Therapy Stop Date	Site of Radiotherapy	Radiotherap y Total Time	Total dose of Radiotherapy (cGy/rad):	Best Response to Radiotherapy:	Radiation Therapist
//						
//	//					
//	/					
//	//					
//						

Choices for Best Response to Radiotherapy::

- 1. Complete
- 2. Partial
- 3. Stable_disease
- 4. Progression
- 5. Indeterminate
- 7. Not applicable (adjuvant)

Annual report, José Costa, M.D.

Appendix 1, Page 29

Chemotherapy

Start date	Stop date	Chemotherapy Agent:	Chemotherapy, Number of Courses:	Best Response to Chemotherapy:	Medical Oncologist
//	//				
//	//				
//	//				
/	//				
//	//				
//	//				

Choices for Best Response to Chemotherapy::

- 1. Complete
- 2. Partial
- 3. Stable_disease
- 4. Progression
- 5. Indeterminate
- 7. Not applicable (adjuvant)

Endocrine Therapy

Start Date	Stop Date	Endocrine Therapy (list individual agents, use generic name)	Best Response	Medical Oncologist
//				
//	//			
/	/			
//	/			
//	/		<u></u>	

Choices for Best Response:

- 1. Complete
- 2. Partial
- 3. Stable_disease
- 4. Progression
- 5. Indeterminate
- 7. Not applicable (adjuvant)

Annual report, José Costa, M.D.

Appendix 1, Page 30

ale Cancer Center	Breast Cancer Research Program	Follow-Up	
Date of Assessment Follow-Patient Status		Date of last follow-up contact	
		Date of Death Cause of Death	
Relapse/progression? (specify site(s))		(If lost to f/u) Date Last Known Alive	
Date of New Primary Breast CA		Date of Relapse/ Progression	
Current Clinical Stage			
Current Pathological Stage T Stage			
N Stage M Stage			
Comments:			

Breast CA F/u

Italicized items are not optional.	***********
Date of Assessment:	
Follow-Patient Status	
[] Alive, No evidence of Disease	
[] Alive, with disease	
[] Alive, disease status unknown	
[] Dead, without disease	
[] Dead, with disease	
[] Dead, disease status unknown	
[] Lost to follow-up	
Date of last follow-up contact:	
Date of Death:	
	
Cause of Death: Date Last Known Alive:	
Date of Relapse:	
Relapse/progression sites:	
Current Clinical Stage	
[] NED	
[] 0 in situ carcinoma	
[] I invasive, LN negative	
[] II invasive, LN positive	
[] IIIA locally advanced, resectable	
[] IIIB locally advanced, non-resectable	
[] IV metastatic	
[] Unknown	
Current Pathological Stage	
[] NED	
[] 0 in situ carcinoma	
[] I invasive, LN negative	
[] II invasive, LN positive	
[] IIIA locally advanced, resectable	
[] IIIB locally advanced, non-resectable	
[] IV metastatic	
[] Unknown	
Data of Novy Drivesory CA	
Date of New Primary CA: Comments::	
T Stage	
[] TX Primary tumor cannot be assessed	
[] TO No evidence of primary tumor	
[] Tis Carcinoma in situ: intraductal CA, lobular CA in situ, or Paget's disease	
[] TI Tumor 2 cm or less in greatest dimension	
[] T2 Tumor more than 2 cm but not more than 5 cm	
[] T3 Tumor more than 5 cm in greatest dimension	
[] T4 Tumor of any size with direct extension to chest wall or skin	
[11. Tames of any one with an out anti-control of control of and	
N Stage	
[] NX Regional lymph nodes cannot be assessed	
[] NO No regional lymph nodes metastasis	
[] NI Metastasis to movable ipsilater in the mark post of Gosta, M.D.	

[] N2 Metastasis to ipsilateral axillary lymph node(s) fixed to one another or to other
[] N3 Metastasis to ipsilateral internal mammary lymph node(s)
M Stage
[] MX Presence of distant metastasis cannot be assessed
[] M0 No distant metastasis
[] M1 Distant metastasis (includes metastasis to ipsilateral supraclavicular lymph node)

Appendix 2: Breast cases collected, July 1997 to June 1998

8/28/9/ 59/-1/313	•	8/26/97 \$97-17134		8/25/97 S97-17041	S97-17031 S97-17041	\$97-17031 \$97-17031 \$97-17041	\$97-16976 \$97-17031 \$97-17031 \$97-17041	\$97-16938 \$97-16976 \$97-17031 \$97-17031 \$97-17041	\$97-16744 \$97-16938 \$97-16976 \$97-17031 \$97-17031	\$97-16678 \$97-16744 \$97-16938 \$97-16976 \$97-17031 \$97-17031	\$97-16601 \$97-16678 \$97-16744 \$97-16938 \$97-16976 \$97-17031 \$97-17031	\$97-16601 \$97-16601 \$97-16678 \$97-16744 \$97-16938 \$97-16976 \$97-17031 \$97-17031	\$97-16373 \$97-16601 \$97-16601 \$97-16678 \$97-16744 \$97-16938 \$97-16976 \$97-17031 \$97-17031	\$97-16199 \$97-16373 \$97-16601 \$97-16601 \$97-16678 \$97-16744 \$97-16976 \$97-16976 \$97-17031 \$97-17041	\$97-15466 \$97-16199 \$97-16373 \$97-16601 \$97-16678 \$97-16744 \$97-16938 \$97-16936 \$97-17031 \$97-17031	\$97-15245 \$97-15466 \$97-16199 \$97-16373 \$97-16601 \$97-16601 \$97-16678 \$97-16744 \$97-16938 \$97-16936 \$97-17031 \$97-17031	\$97-14835 \$97-15245 \$97-15466 \$97-16199 \$97-16373 \$97-16601 \$97-16601 \$97-16678 \$97-16744 \$97-16976 \$97-17031 \$97-17031 \$97-17041	\$97-14748 \$97-14835 \$97-15245 \$97-15466 \$97-16199 \$97-16373 \$97-16601 \$97-16601 \$97-16678 \$97-16744 \$97-16976 \$97-17031 \$97-17031	\$97-14696 \$97-14748 \$97-15245 \$97-15245 \$97-15466 \$97-16199 \$97-16801 \$97-16601 \$97-16678 \$97-16744 \$97-16976 \$97-17031 \$97-17031 \$97-17031	\$97-14308 \$97-14696 \$97-14748 \$97-14835 \$97-15245 \$97-15466 \$97-16373 \$97-16601 \$97-16601 \$97-16678 \$97-16976 \$97-16938 \$97-17031 \$97-17031 \$97-17031	\$97-14308 \$97-14308 \$97-14696 \$97-14748 \$97-14835 \$97-15245 \$97-15245 \$97-1649 \$97-16601 \$97-16601 \$97-16678 \$97-16678 \$97-16938 \$97-16936 \$97-17031 \$97-17031	\$97-14149 \$97-14308 \$97-14308 \$97-14696 \$97-14696 \$97-14748 \$97-15245 \$97-15245 \$97-16601 \$97-16601 \$97-16601 \$97-16678 \$97-16678 \$97-16938 \$97-16938 \$97-17031 \$97-17031	\$97-14061 \$97-14149 \$97-14308 \$97-14308 \$97-14696 \$97-14748 \$97-14748 \$97-15245 \$97-15245 \$97-15245 \$97-16601 \$97-16601 \$97-16601 \$97-16678 \$97-16678 \$97-16678 \$97-16938 \$97-16936 \$97-17031 \$97-17031	\$97-14012 \$97-14061 \$97-14149 \$97-14308 \$97-14308 \$97-14696 \$97-14748 \$97-15245 \$97-15245 \$97-15245 \$97-16601 \$97-16601 \$97-16601 \$97-16678 \$97-16678 \$97-16976 \$97-16938 \$97-16931 \$97-17031 \$97-17031	\$97-13980 \$97-14012 \$97-14061 \$97-14149 \$97-14308 \$97-14308 \$97-14308 \$97-14748 \$97-14748 \$97-15245 \$97-15245 \$97-15245 \$97-15245 \$97-15245 \$97-16373 \$97-16601 \$97-16601 \$97-16678 \$97-16678 \$97-16678 \$97-16938 \$97-16936 \$97-17031 \$97-17031	\$97-13835 \$97-13980 \$97-14012 \$97-14061 \$97-14061 \$97-14308 \$97-14308 \$97-14748 \$97-14748 \$97-14748 \$97-15245 \$97-15245 \$97-15245 \$97-15245 \$97-16601 \$97-16601 \$97-16601 \$97-16678 \$97-16678 \$97-16678 \$97-16938 \$97-16936 \$97-17031 \$97-17031	\$97-13661 \$97-13835 \$97-13980 \$97-14012 \$97-14061 \$97-14149 \$97-14308 \$97-14308 \$97-14308 \$97-14308 \$97-14308 \$97-14308 \$97-14308 \$97-14335 \$97-15245 \$97-15245 \$97-15245 \$97-15245 \$97-154601 \$97-16601 \$97-16601 \$97-16678 \$97-16678 \$97-16976 \$97-16938 \$97-16938 \$97-17031 \$97-17031	\$97-7793 \$97-13661 \$97-13835 \$97-13980 \$97-14012 \$97-14061 \$97-14061 \$97-14308 \$97-14308 \$97-14748 \$97-14748 \$97-14748 \$97-15245 \$97-15245 \$97-15245 \$97-16601 \$97-16601 \$97-16601 \$97-16678 \$97-16678 \$97-16938 \$97-16936 \$97-16936 \$97-17031 \$97-17031	\$97-7788 \$97-7793 \$97-13661 \$97-13835 \$97-13980 \$97-14061 \$97-14061 \$97-14308 \$97-14308 \$97-14308 \$97-14696 \$97-14696 \$97-15245 \$97-15245 \$97-15460 \$97-16601 \$97-16601 \$97-16678 \$97-16678 \$97-16678 \$97-16938 \$97-16938 \$97-16936 \$97-17031 \$97-17031	\$97-7787 \$97-7788 \$97-7793 \$97-13661 \$97-13661 \$97-13980 \$97-14061 \$97-14061 \$97-14308 \$97-14308 \$97-14748 \$97-14748 \$97-14748 \$97-15245 \$97-15245 \$97-15245 \$97-16601 \$97-16601 \$97-16678 \$97-16678 \$97-16678 \$97-16938 \$97-16936 \$97-17031 \$97-17031	\$97-7733 \$97-7787 \$97-7788 \$97-7788 \$97-7793 \$97-13661 \$97-13661 \$97-14012 \$97-14061 \$97-14308 \$97-14308 \$97-14308 \$97-14308 \$97-14308 \$97-14696 \$97-14696 \$97-15245 \$97-15245 \$97-15245 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16601 \$97-16076 \$97-16038 \$97-16038 \$97-16036
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Tissue Bank Collections

Report Period: 7/97 to 6/98

By Tissue Type

7	ישל ו אמי														
Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT	OCT	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Fresh Normal	Fresh Tumor	fresh distr.
9/9/97	S97-18053	Breast		-	-	1							_	-	RPMI
9/16/97	S97-18598	Breast		_		_									
9/18/97	S97-18774	Breast								4		_			
9/18/97	S97-18774	Breast						23							
9/23/97	S97-19109	Breast						23							2
9/23/97	S97-19141	Breast						23							ıdix
9/24/97	S97-19222	Breast						23							pen
9/25/97	S97-19398	Breast							2	4					Аp
9/26/97	S97-19412	Breast						23							
9/26/97	S97-19494	Breast								N					
9/30/97	S97-19666	Breast						23							
10/6/97	S97-20120	Breast						23							
10/21/97	S97-21285	Breast						15							6
12/23/97	S97-21296	Breast		_	_	_									e 3
10/22/97	S97-21418	Breast						23							Pag
10/28/97	S97-21876	Breast		_	2	2									
11/3/97	S97-22269	Breast		_	N	N									
11/5/97	S97-22518	Breast		_								_			
11/13/97	S97-23151	Breast		_	2					2					
11/14/97	S97-23233	Breast		_	ω	O1									
11/19/97	S97-23553	Breast									_	_			
11/21/97	S97-23569	Breast		_							ω	ω			
11/20/97	S97-23692	Breast		_	_	-									
11/20/97	S97-23692	Breast						15							
11/25/97	S97-24058	Breast		_		_								_	Saline
11/25/97	S97-24087	Breast		_	2	N							_	_	
12/2/97	S97-24541	Breast		_	ω	ω							_	>	Own
12/3/97	S97-24608	Breast		_	ĊΊ	O		23					_	_	Own
12/3/97	S97-24608	Breast ce	central	_	_	_									
12/3/97	S97-24608	Breast						23							
12/5/97	S97-24877	Breast													
														-	

Print Date: 7/16/98

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Tissue Bank Collections

By Tissue Type

Report Period: 7/97 to 6/98

		© 1997	Levine © 1	В. 7.	C. L. Howe	dicine by (ecular Me	ies in Mol	chnologi	Critical Te	ogram for	Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe &	Database dev	Print Date: 7/16/98	Print Dat
					2								Breast	S98-1324	<u>.</u> 1/19/98
					_				_	_	_		Breast	S98-1176	1/16/98
					_	_			_	_	_		Breast	S98-1141	1/16/98
			_	_	_	_			2	2	_		Breast	S98-987	1/14/98
						_			N	2			Breast	S98-945	1/14/98
					-	-1			_	_			Breast	S98-857	1/13/98
					-				_	_			Breast	S98-832	1/13/98
									2	2	_		Breast	S98-441	1/8/98
							23						Breast	S98-184	1/14/98
									_		_		Breast	S98-184	1/6/98
							15						Breast	S97-26296	12/23/97
							23					mass	Breast	S97-26159	12/22/97
							23						Breast	S97-26159	12/22/97
							23						Breast	S97-25937	12/18/97
							23						Breast	S97-25937	12/18/97
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ge 3											_		Breast	S97-25790	12/17/97
7							15						Breast	S97-25573	12/15/97
									_	_	_		Breast	S97-25573	12/15/97
									5	5	_		Breast	S97-25439	12/12/97
							23					mass	Breast	S97-25311	12/11/97
							23						Breast	S97-25311	12/11/97
O ≸ Ap	_3	_									_		Breast	S97-25311	12/11/97
pen							23						Breast	S97-25291	1/14/98
ıdix							23						Breast	S97-25291	12/11/97
: 2					_	_							Breast	S97-25291	12/11/97
Own	_	_			2								Breast	S97-25057	12/9/97
							23						Breast	S97-24991	12/9/97
							23						Breast	S97-24977	12/9/97
Own	_												Breast	S97-24975	12/8/97
fresh distr.	Fresh Tumor	Fresh Normal	Paraffin Tumor	Paraffin Normal	Snap Tumor	Snap Normal	Slide Tumor	Slide Normal	OCT	OCT Normal	Cases w/pairs	Total Cases	Tissue type	Accession Type & No.	Date Frozen
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issue Bank Collections

By Tissue Type

Report Period: 7/97 to 6/98

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	Paraffin Tumor		Snap Normal	Slide Tumor	Slide Normal	OCT Tumor	OCT Normal	Cases w/pairs	Total Cases	Tissue type	Accession Type & No.	Date Frozen

Tissue Bank Collections By Tissue Type

Report Period: 7/97 to 6/98

5/26/98 5/15/98 5/15/98 5/12/98 4/28/98 4/28/98 4/27/98 4/21/98 4/21/98 4/22/98 4/20/98 Frozen 6/3/98 6/2/98 5/26/98 5/21/98 5/21/98 5/8/98 5/7/98 5/4/98 5/1/98 4/9/98 4/9/98 4/7/98 6/18/98 6/16/98 5/15/98 5/15/98 5/13/98 4/30/98 4/14/98 5/29/98 Date S98-7743 S98-7472 Accession Type & No. S98-8386 S98-7921 S98-7743 S98-10939 S98-10454 S98-9500 S98-9396 S98-9251 S98-9060 S98-8995 S98-8467 S98-8467 S98-8386 S98-13103 S98-12871 S98-11856 S98-11716 S98-11482 S98-11190 S98-11171 S98-10939 S98-10542 S98-10485 S98-10484 S98-10105 S98-10016 S98-9892 S98-9772 S98-8914 Breast Tissue type Breast Breast Cases Total Cases w/pairs OCT Normal N OCT ω Slide Normal N Slide Tumor 23 5 걍 23 23 23 23 23 ω Snap Normal ω Snap Tumor Paraffin Paraffin Normal Tumor Fresh Normal N N N N N N Fresh Tumor Çī Ġ ouch Page 39 touch prep touch prep touch prep touch prep fresh distr. touch prep ethanol हुँ Appendix 2 Touch Touch Touch Touch touch touch

Print Date: 7/16/98

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Tissue Bank Collections By Tissue Type

Report Period: 7/97 to 6/98

				_					-			breast	Skin	S97-18712 S	9/17/97
RPMI		2										breast	Skin	S97-17543 S	9/2/97
RPMI		2										breast	Skin	S97-17358 S	8/28/97
RPMI		_										breast	Skin	S97-7745 S	7/9/97
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sh fresh or distr.	Fresh Tumor	Fresh Normal	Paraffin Tumor	Paraffin Normal	Snap Tumor	Snap Normal	Slide Tumor	Slide Normal	OCT	OCT Normal	Cases w/pairs	Total Cases	Tissue type	Accession Type & No.	Date Frozen

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Fresh		_										breast		Skin	S98-13785	6/26/98	
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Saline oper		2										breast		Skin	S98-9215	4/29/98	
Saline:		2										breast		Skin	S98-8525	4/21/98	
Saline		_										breast		Skin	S98-6899	3/31/98	
Saline		2										breast		Skin	S98-5644	3/13/98	
RPMI		_										breast		Skin	S98-5134	3/9/98	
												breast		Skin	S97-22844	11/10/97	
RPMI		2										breast		Skin	S97-22206	10/31/97	
fresh distr.	Fresh Tumor	Fresh Normal	Paraffin Tumor	Paraffin Normal	Snap Tumor	Snap Normal	Slide Tumor	Slide Normal	OCT Slide Tumor Normal	Cases OCT w/pairs Normal	Cases w/pairs	Total Cases	ě	Tissue type	Accession Type & No.	Date Frozen	
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to 6/98	riod: 7/97	Report Period: 7/97 to 6/98	ZD								S	ection		ank C	Tissue Bank Collections		

Print Date: 7/16/98

Annual report, José Costa, M.D.

Appendix 3: Breast cytology cases collected, July 1997 to June 1998

Report Period: to 6/30/98

Cytology Tissue Bank Breast related specimens

Date Frozen	Accession & part		Tissue type	Cytology (Volume	Cytology Box #	Diagnosis
6-5-95	C95-4439	2	FNA BREAST WASH	12	24	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
6-6-95	C95-4489	2	FNA RT BREAST	20	24	FINE NEEDLE ASPIRATE, RIGHT BREAST:
6-8-95	C95-4575	2	LEFT BREAST,	10	23	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
6-15-95	C95-4780	2	RIGHT BREAST,	20	23	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
7-11-95	C95-5377	2	FNA LEFT BREAST	7	25	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
7-14-95	C95-5539	2	FNA LT BREAST WASH	10	24	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
7-17-95	C95-5540		FNA LT BREAST FL	12	24	LEFT BREAST CYST, FINE NEEDLE ASPIRATE:
7-18-95	C95-5632	2	FNA RT BREAST	20	21	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
7-24-95	C95-5810	2	BREAST FNA-FINE	10	21	FINE NEEDLE ASPIRATION, RIGHT BREAST, 2
7-24-95	C95-5814		BREAST FNA	10	21	BREAST, FINE NEEDLE ASPIRATION, LEFT, 9
7-24-95	C95-5825	2	HEAD/NECK WASH	7	21	PARTS 1 + 2 FINE NEEDLE ASPIRATE, SUBGLOTTIC
7-28-95	C95-5975	2	FNA WASH BREAST	10	20	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
8-1-95	C95-6047	2	FNA RT BREAST	3	20	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
8-3-95	C95-6140	2	FNA LT BREAST WASH	2	20	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-7-95	C95-6241	2	FNA RT STEREO	17	19	1,2) RIGHT STEREOTACTIC BREAST, FINE NEEDLE
8-7-95	C95-6241	1	FNA RT STEREO	20	19	1,2) RIGHT STEREOTACTIC BREAST, FINE NEEDLE
8-7-95	C95-6257	2	FNA LT BREAST WASH	20	19	1,2) LEFT BREAST, FINE NEEDLE ASPIRATION:
8-11-95	C95-6395	2	FNA RT BREAST	15	19	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
8-14-95	C95-6420		FNA LT BREAST	10	19	LEFT BREAST, FINE NEEDLE ASPIRATE:
8-15-95	C95-6495	2	FNA BREAST WASH	5	18	1) FINE NEEDLE ASPIRATE, AXILLAE, LEFT:
8-15-95	C95-6497	2	FNA LT BREAST	20	18	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-18-95	C95-6620	2	FNA LT BREAST WASH	10	18	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-23-95	C95-6723		FNA LT BREAST WASH	20	18	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-23-95	C95-6759	2	LT BREAST WASH	2	18	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-25-95	C95-6844	2	FNA RT BREAST	15	18	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
8-28-95	C95-6858	2	FNA RT BREAST	5	18	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
8-29-95	C95-6897	2	FNA LT BREAST WASH	10	17	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-30-95	C95-6986	2	FNA RT BREAST WASH	10	60	SHEETS OF BENIGN DUCT CELLS
9-6-95	C95-7121	2	FNA LT BREAST	20	60	BLOOD AND MACROPHAGES ONLY
9-6-95	C95-7147	2	FNA LT BREAST WASH	20	61	NON-DIAGNOSTIC
9-12-95	C95-7272		FNA RT BREAST	15	17	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:

Cytology Tissue Bank Breast related specimens

Print Date: 7/17/98

Date Frozen	Accession & part #		Tissue type	Cytology Volume	Cytology Box #	Diagnosis
9-12-95	C95-7273	2	FNA LT BREAST 1:00	20	17	1-4) LEFT BREAST, 1:00, 2:00 FINE NEEDLE
9-12-95	C95-7273	4	FNA LT BREAST 2:00	10	17	1-4) LEFT BREAST, 1:00, 2:00 FINE NEEDLE
9-21-95	C95-7693	2	FNA LT BREAST WASH	17	16	1,2) LEFT BREAST, FINE NEEDLE ASPIRATION:
9-28-95	C95-7895	2	FNA RT BREAST	10	16	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
9-28-95	C95-7900	2	FNA LT BREAST WASH	10	16	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
10-4-95	C95-8084	2	BREAST FNA-FINE	5	15	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
10-5-95	C95-8122	2	FNA LT BREAST WASH	10	15	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
10-5-95	C95-8128	2	FNA LEFT BREAST	10	15	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
10-20-95	C95-8564	2	FNA LT BREAST WASH	15	13	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
10-23-95	C95-8668	2	FNA LEFT BREAST	17	13	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
11-1-95	C95-8978		FNA R BREAST	15	12	RIGHT BREAST, FINE NEEDLE ASPIRATE:
11-8-95	C95-9210		FNA LT BREAST FLUID	5	11	LEFT BREAST, FINE NEEDLE ASPIRATE:
11-10-95	C95-9261	2	FNA LT BREAST WASH	15	10	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
11-10-95	C95-9262	2	FNA LT BREAST WASH	20	10	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
11-20-95	C95-9534		RT BREAST CYST	15	9	RIGHT BREAST CYST ASPIRATION:
11-22-95	C95-9601	2	LEFT BREAST; FINE	15	9	1+2) FINE NEEDLE ASPIRATION; LEFT BREAST:
12-4-95	C95-9840		FNA RT BREAST	5	8	RIGHT BREAST, FINE NEEDLE ASPIRATE:
12-7-95	C95-10032	2	FNA RT BREAST	7	8	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
12-18-95	C95-10289		FNA RT BREAST	15	7	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
12-19-95	C95-10375		FNA LT BREAST	15	6	LEFT BREAST, FINE NEEDLE ASPIRATE:
1-2-96	C96-8		FNA RT BREAST	20	5	RIGHT BREAST, FINE NEEDLE ASPIRATE:
1-4-96	C96-77	2	FNA RT BREAST	15	5	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
1-10-96	C96-197		FNA LT BREAST	10	4	LEFT BREAST, FINE NEEDLE ASPIRATE:
1-11-96	C96-221	2	FNA LT BREAST WASH	20	4	LEFT BREAST, FINE NEEDLE ASPIRATE:
1-12-96	C96-283		FNA RT BREAST	15	4	RIGHT BREAST, FINE NEEDLE ASPIRATE:
1-17-96	C96-412		FNA LT BREAST ASP.	5	5	LEFT BREAST, FINE NEEDLE ASPIRATE:
1-17-96	C96-415	2	BREAST FNA-FINE	10	1	1,2) BREAST, FINE NEEDLE ASPIRATE:
1-24-96	C96-634		FNA RT BREAST	10	2	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
1-31-96	C96-885		FNA RT BREAST	20	1	RIGHT BREAST, FINE NEEDLE ASPIRATE:
1-31-96	C96-886	2	FNA LT BREAST WASH	10	1	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
2-5-96	C96-1062		LEFT BREAST CYST	15	1	LEFT BREAST CYST FLUID:

Report Period: to 6/30/98

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Cytology Tissue Bank Breast related specimens

Date Frozen	Accession & part #		Tissue type	Cytology Volume	Cytology Box #	Diagnosis
2-13-96	C96-1291		FNA RT BREAST	1	3	RIGHT BREAST, FINE NEEDLE ASPIRATE:
2-15-96	C96-1402		FNA RT BREAST	3	3	RIGHT BREAST, FINE NEEDLE ASPIRATE:
2-22-96	C96-1566	2	FNA RT BREAST	5	3	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
2-23-96	C96-1617		FNA RT BREAST	15	4	RIGHT BREAST, FINE NEEDLE ASPIRATE:
3-6-96	C96-1965	2	FNA LEFT BREAST	10	27	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
3-26-96	C96-2576		LT BREAST NIPPLE	2	29	LEFT BREAST NIPPLE DISCHARGE:
4-10-96	C96-2990		Part: 1 FNA LEFT	17	31	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
4-17-96	C96-3278		BREAST FNA-FINE	17	32	RIGHT BREAST SMEAR; FINE NEEDLE ASPIRATION:
4-18-96	C96-3325		LT BREAST CYST	12	32	-SEVERELY ATYPICAL CELLS (SEE NOTE)
4-25-96	C96-3507		FNA LEFT BREAST	20	32	- NEGATIVE FOR MALIGNANT CELLS
5-1-96	C96-3656		FNA RIGHT BREAST	5	33	- HIGHLY ATYPICAL NON-COHESIVE EPITHELIAL
5-9-96	C96-3938	2	FNA LEFT BREAST	17	34	- FEW BARE NUCLE!
5-9-96	C96-3947	2	FNA RIGHT BREAST	17	34	- POSITIVE: ADENOCARCINOMA CONSISTENT WITH
5-10-96	C96-3949	2	FNA RIGHT BREAST	15	34	- POSITIVE: ADENOCARCINOMA
5-13 - 96	C96-4028	2	FNA RIGHT BREAST	15	35	- MARKEDLY CELLULAR SPECIMEN SHOWING MIXED
5-16-96	C96-4178		FNA RIGHT BREAST	2	34	- POSITIVE FOR MALIGNANT CELLS
5-20-96	C96-4230		FNA LEFT BREAST	20	34	
5-22-96	C96-4326		FNA RIGHT BREAST	20	34	- NEGATIVE FOR MALIGNANT CELLS
5-23-96	C96-4403	2	FNA LEFT BREAST	20	36	- NEGATIVE FOR MALIGNANT CELLS
5-29-96	C96-4508	2	FNA LEFT BREAST	20	36	- POSITIVE FOR MALIGNANT CELLS (SEE NOTE)
6-3-96	C96-4615		FNA LEFT BREAST	20	37	- MARKED PURULENT EXUDATE CONSISTENT WITH
6-4-96	C96-4649	2	FNA RIGHT BREAST	10	37	- POSITIVE FOR MALIGNANT CELLS CONSISTENT
6-5-96	C96-4728		BREAST FNA-FINE	7	37	-CONTENTS OF CYST
6-6-96	C96-4768	2	BREAST FNA-FINE	17	37	POSITIVE: DUCTAL CARCINOMA WITH APOCRINE
6-10-96	C96-4834		RIGHT BREAST CYST	5	38	-SCATTERED SMALL CLUSTERS OF EPITHELIAL
6-11-96	C96-4839		BREAST FLUID	10	38	-NEGATIVE FOR MALIGNANT CELLS.
6-11-96	C96-4880	2	FINE NEEDLE	15	38	-NEGATIVE FOR MALIGNANT CELLS.
6-13-96	C96-4972	2	FNA RIGHT BREAST	20	38	-MARKEDLY CELLULAR SPECIMEN WITH CYTOLOGIC
6-13-96	C96-4977	2	FNA; RIGHT BREAST	20	38	-FEATURES CONSISTENT WITH LACTATIONAL
6-13-96	C96-4979		FNA; RIGHT BREAST	15	38	-NEGATIVE FOR MALIGNANT CELLS.
6-17-96	C96-5043		BREAST CYST FLUID	10	39	- NEGATIVE FOR MALIGNANT CELLS

Report Period: to 6/30/98

Print Date: 7/17/98

Report Period: to 6/30/98

Cytology Tissue Bank Breast related specimens

Print Date: 7/17/98

Date Frozen	Accession & part #		Tissue type	Cytology Volume	Cytology Box #	Diagnosis
6-20-96	C96-5169		FNA RT BREAST FLUID	10	42	- NEGATIVE FOR MALIGNANT CELLS
6-27-96	C96-5374		FNA BREAST WASH	20	43	- VIRTUALLY ACELLULAR SPECIMEN
7-8-96	C96-5607	2	FNA LT BREAST WASH	20	40	- POSITIVE FOR MALIGNANT CELLS
7-11-96	C96-5755	2	FNA LT BREAST WASH	12	41	- FRAGMENTS OF FAT WITH A SUGGESTION OF FAT
7-15-96	C96-5827	2	FNA LT BREAST WASH	20	41	- PURULENT EXUDATE CONSISTENT WITH ABSCESS.
7-17-96	C96-5906	2	FNA LT BREAST WASH	20	41	- INADEQUATE SPECIMEN: FEW SQUAMOUS CELLS
7-18-96	C96-5935	2	FNA RIGHT BREAST	15	41	- PAUCICELLULAR SPECIMEN
7-18-96	C96-5966		FNA LT BREAST WASH	12	39	- CONTENTS OF A CYST AND FEW GROUPS OF
7-24-96	C96-6102	2	FNA LT BREAST WASH	10	39	-POSITIVE: DUCTAL CARCINOMA.
8-1-96	C96-6394		BREAST FNA-FINE	20	42	-NON-DIAGNOSTIC. SPECIMEN CONSISTS OF
8-1-96	C96-6396	2	BREAST FNA-FINE	20	42	-NEGATIVE FOR MALIGNANT CELLS.
8-2-96	C96-6455	2	RIGHT BREAST 11:00;	13	45	- NEGATIVE FOR MALIGNANT CELLS
8-8-96	C96-6590	2	FNA LT BREAST WASH	17	44	- NEGATIVE FOR MALIGNANT CELLS
8-8-96	C96-6634		FNA LT BREAST FLUID	20	44	- NEGATIVE FOR MALIGNANT CELLS
8-14-96	C96-6806	2	FNA LT BREAST WASH	20	45	- POSITIVE FOR MALIGNANT CELLS (SEE NOTE)
8-15-96	C96-6857	2	FNA RT BREAST WASH	15	46	- POSITIVE FOR MALIGNANT CELLS
8-19-96	C96-6921		LEFT BREAST CYST	20	46	- NEGATIVE FOR MALIGNANT CELLS
8-20-96	C96-6982		FNA LT BREAST WASH	20	46	- MARKEDLY ATYPICAL DUCT CELLS ARE PRESENT
9-4-96	C96-7385	1	FNA LT BREAST 3:00	20	48	- MARKED PURULENT EXUDATE CONSISTENT WITH
9-4-96	C96-7385	3	FNA LT BREAST 2:00	20	48	- MARKED PURULENT EXUDATE CONSISTENT WITH
9-5-96	C96-7421		FNA RT BREAST FLUID	16	48	- CYSTIC CONTENTS AND APOCRINE CELLS
9-5-96	C96-7463	2	FNA RT BREAST WASH	18	48	FEW GROUPS OF CYTOLOGICALLY BLAND BREAST
9-6-96	C96-7484	2	FNA RT BREAST WASH	15	48	- INADEQUATE FOR PROPER EVALUATION (NO
9-6-96	C96-7485	2	FNA BREAST WASH	10	48	- SCATTERED GROUPS OF CYTOLOGICALLY BLAND
9-9-96	C96-7572	2	RT BREAST CYST	20	49	- NUMEROUS NEUTROPHILS, POSSIBLY
9-13-96	C96-7784		FNA RT BREAST FLUID	10	49	- NEGATIVE FOR MALIGNANT CELLS
9-18-96	C96-7890	2	FNA LT BREAST WASH	10	50	- NEGATIVE FOR MALIGNANT CELLS
9-27-96	C96-8312	2	FNA LT BREAST WASH	10	51	- POSITIVE FOR MALIGNANT CELLS
10-1-96	C96-8384	2	FNA RT BREAST WASH	20	51	- NEGATIVE FOR MALIGNANT CELLS
10-2-96	C96-8457	2	FNA LT BREAST WASH	15	51	- NEGATIVE FOR MALIGNANT CELLS
10-3-96	C96-8463		FNA LT BREAST FLUID	15	51	- NEGATIVE FOR MALIGNANT CELLS

Appendix 3, Page 46

Cytology Tissue Bank Breast related specimens

Date Frozen	Accession & part #		Tissue type	Cytology Volume	Cytology Box #	Diagnosis
10-8-96	C96-8673	2	FNA LT BREAST WASH	52	52	- SEVERELY ATYPICAL CELLS (SEE NOTE)
10-10-96	C96-8784	2	BREAST FNA-FINE	20	52	-POSITIVE FOR MALIGNANT CELLS
10-16-96	C96-9030	2	FNA LT BREAST WASH	20	53	- NEGATIVE FOR MALIGNANT CELLS
10-17-96	C96-9076	2	FNA LT BREAST WASH	15	53	- NEGATIVE FOR MALIGNANT CELLS
10-21-96	C96-9168		RT BREAST FLUID	2	54	- NEGATIVE FOR MALIGNANT CELLS
10-29-96	C96-9460	2	FNA LT BREAST WASH	10	56	SEVERELY ATYPICAL CELLS (SEE NOTE)
10-31-96	C96-9546	2	FNA LT BREAST WASH	17	56	SEVERELY ATYPICAL CELLS
11-7-96	C96-9803	2	RIGHT BREAST WASH	20	56	NON-DIAGNOSTIC.
11-12-96	C96-9891		FNA LT BREAST FLUID	10	57	NEGATIVE FOR MALIGNANT CELLS
11-14-96	C96-10050	2	FNA RT BREAST WASH	20	57	POSITIVE FOR MALIGNANT CELLS
11-19-96	C96-10189		FNA RT BREAST FLUID	17	58	-RARE SMALL CLUSTERS OF APOCRINE-TYPE CELLS
11-25-96	C96-10336	2	FINE NEEDLE	1	59	GROUPS OF CYTOLOGICALLY BLAND DUCTAL
11-25-96	C96-10340	2	FNA; LEFT BREAST	10	59	CELLULAR SMEAR COMPOSED OF MARKEDLY
11-26-96	C96-10427	2	FNA RT BREAST WASH	1	59	MODERATELY ATYPICAL EPITHELIAL CELLS (SEE
12-9-96	C96-10769	2	BREAST FNA-FINE	20	63	NON-DIAGNOSTIC DUE TO INSUFFICIENT
12-17-96	C96-11045		FNA RT BREAST FLUID	10	64	NEGATIVE FOR MALIGNANT CELLS
12-17-96	C96-11059	2	FNA RT BREAST WASH	20	64	SEVERELY ATYPICAL CELLS (SEE NOTE)
12-18-96	C96-11108	2	FNA RT BREAST WASH	10	64	: This patient shows clusters of atypical ductal cells
12-26-96	C96-11350		FNA LT BREAST FLUID	15	65	NEGATIVE FOR MALIGNANT CELLS
1-7-97	C97-91		FNA RT BREAST FLUID	20	65	CYSTIC FEATURES AND DUCTAL CELLS EXHIBITING
1-9-97	C97-278		FNA RT BREAST FLUID	15	66	TOO FEW CELLS PRESENT FOR ADEQUATE
1-13-97	C97-468		FNA LT BREAST FLUID	17	66	NEGATIVE FOR MALIGNANT CELLS
1-13-97	C97-475	2	FNA LT BREAST WASH	15	66	CELLULAR SMEARS SHOW NUMEROUS
1-22-97	C97-968	2	FNA RT BREAST WASH	20	70	DEGENERATED CELLULAR DEBRIS AND RARE
1-22-97	C97-969	2	FNA LT BREAST WASH	15	70	NEGATIVE FOR MALIGNANT CELLS.
1-22-97	C97-970	2	FNA LT BREAST WASH	10	70	POSITIVE FOR MALIGNANT CELLS CONSISTENT
1-23-97	C97-1076		FNA RT BREAST FLUID	20	70	NEGATIVE FOR MALIGNANT CELLS.
1-23-97	C97-1076		FNA RT BREAST FLUID	20	70	NEGATIVE FOR MALIGNANT CELLS.
1-24-97	C97-1171		FNA BREAST	10	70	CLUSTERS OF EPITHELIAL CELLS ARE PRESENT IN A
2-13-97	C97-2203	2	FNA RT BREAST WASH	17	75	NEGATIVE FOR MALIGNANT CELLS
3-13-97	C97-3685	2	BREAST FNA-FINE	3	79	NON DIAGNOSTIC DUE TO INSUFFICENT

Report Period: to 6/30/98

Print Date: 7/17/98

Cytology Tissue Bank Breast related specimens

Date Frozen	Accession & part #		Tissue type	Cytology Volume	Cytology Box #	Diagnosis
5-5-97	C97-6454	2	FNA LT BREAST WASH	20	79	NEGATIVE FOR MALIGNANT CELLS
5-8-97	C97-6643		FNA LT BREAST FLUID	15	79	NEGATIVE FOR MALIGNANT CELLS
5-13-97	C97-6954	2	FNA LT BREAST WASH	2	79	NON-DIAGNOSTIC
5-19-97	C97-7349	2	FNA RT BREAST WASH	3	79	CELLULAR CLUSTERS OF DUCTAL EPITHELIAL CELLS
5-22-97	C97-7627	2	FNA LT BREAST WASH	10	79	POSITIVE FOR MALIGNANT CELLS
5-22-97	C97-7629	2	FNA RT BREAST WASH	3	81	NEGATIVE FOR MALIGNANT CELLS
6-4-97	C97-8141	2	FNA LT BREAST WASH	2	81	NEGATIVE FOR MALIGNANT CELLS
6-10-97	C97-8492	2	FNA LT BREAST WASH	2	81	FIBROADIPOSE TISSUE ONLY
6-10-97	C97-8553	2	FNA RT BREAST WASH	20	81	CYSTIC CONTENTS AND SCATTERED ATYPICAL
6-13-97	C97-8837	2	FNA RT BREAST WASH	2	81	HIGH CELLULARITY
6-16-97	C97-8853	2	FNA LT BREAST WASH	2	81	ABUNDANT BENIGN DUCTAL EPITHELIUM
6-19-97	C97-9183	2	FNA LT BREAST WASH	15	81	CLUSTERS OF POORLY PRESERVED DUCTAL CELLS
6-20-97	C97-9271	2	FNA LT BREAST WASH	10	81	POSITIVE FOR MALIGNANT CELLS
10-10-97	C97-16736	2	BREAST; MIDDLE	10	88	NON-DIAGNOSTIC DUE TO INSUFFICIENT
10-14-97	C97-16972	2	LT BREAST; FNA	3	88	NEGATIVE FOR MALIGNANT CELLS.
10-30-97	C97-19025	2	FNA LT BREAST WASH	15	88	AGGREGATES OF ATYPICAL DUCTAL CELLS WHICH
11-6-97	C97-19962	2	FNA RT BREAST 11:00	15	91	ACELLULAR SPECIMEN.
11-11-97	C97-20560	2	FNA LT BREAST WASH	20	91	NON-DIAGNOSTIC DUE TO INSUFFICIENT
11-18-97	C97-21876	2	FNA RT BREAST WASH	15	91	NEGATIVE FOR MALIGNANT CELLS.
12-19-97	C97-27153	2	FNA RT BREAST WASH	3	91	NEGATIVE FOR MALIGNANT CELLS.
12-22-97	C97-27368	2	BREAST FNA WASH	3	91	NEGATIVE FOR MALIGNANT CELLS
1-2-98	C98-51	2	LEFT BREAST FNA	3	92	ADIPOSE TISSUE AND FEW GROUPS OF
1-5-98	C98-211	2	FNA RT BREAST	3	92	ADIPOSE TISSUE ONLY.
1-20-98	C98-3104	2	FNA LT BREAST WASH	2	92	CELLULAR FRAGMENTS OF EPITHELIOID CELLS
2-2-98	C98-5184	2	FNA LT BREAST WASH	20	92	NO EVIDENCE OF MALIGNANCY IN SPECIMEN
2-9-98	C98-6298		FNA RT BREAST FLUID	20	93	FAVOR PAPILLARY LESION (SEE NOTE).
3-4-98	C98-10275	2	FNA RT BREAST WASH	3	93	NEGATIVE FOR MALIGNANT CELLS.
4-7-98	C98-16114	2	FNA RT BREAST WASH	5	93	POSITIVE FOR MALIGNANT CELLS.
4-9-98	C98-16746	2	FNA LT BREAST WASH	5	94	-COHESIVE CLUSTERS OF BENIGN-APPEARING
4-9-98	C98-16747	2	FNA RT BREAST	15	94	NEGATIVE FOR MALIGNANT CELLS.
4-27-98	C98-19439	2	FNA RT BREAST WASH	20	94	

Report Period: to 6/30/98

Cytology Tissue Bank

Breast related specimens

Date Accession # Tissue Cytology Cytology
Frozen & part # type Volume Box # Diagnosis

5-4-98 C98-20770 2 FNA LT BREAST WASH 3 94 NEGATIVE FOR MALIGNANT CELLS.

Report Period: to 6/30/98

Totals:

187 Cases available

Print Date: 7/17/98

Appendix 4: Breast cases distributed from frozen samples

Program	for Cri	Program for Critical Technolog	olouc		Fissue	Dist	ribution R	es Tissue Distribution Report "TB"	Re	port Per	Report Period: 7/97 - 6/98	- 6/98
(Samples distributed from tissue bank)	uted from tis	sue bank)		_	Non-	Non-	OCT Normal	OCT Tumor	FS	S. S.	Con	Snon
Tissue Type		Acces	sion #	Accession # Dist. Date	Normal	Tumor	Whole Tube Sect.	Whole Tube Sect.	Normal	Tumor	Normal	Tumor
CROTTY, PAUL												
Breast		297	S97-18053	6/6/6	_	-						
Breast	1 Cases	2 Whole	Tube	Sect	1	7						
Total for PI	1 Cases	2 Whole	Tube	Sect		1						
DECAMILLI, PIETRO	RO											
Breast		A97	A97-196	10/15/97			~					
		S95	-14172	S95-14172 10/15/97			~					
Breast		S95	S95-15465 10	10/15/97			-					
Breast		S95	S95-16562	10/15/97			_					
		96S	S96-1171	10/15/97			_					
P Breast		96S	S96-2709	10/15/97			-					
Breast		96S	896-5078	10/15/97			_			-		
Breast		968	S96-5683	10/15/97			_					
Preast		96S	S96-7376	10/15/97				_				
Breast		968	9968-968	10/15/97			_					
Breast		968	S96-11227	10/15/97			_					
Breast		968	S96-11434 10	10/15/97			_					
Breast		96S	S96-11690 11	11/11/97				_				
Breast		96S	S96-12529 10	10/15/97			_					
Breast	male	968	S96-13317	10/15/97				1				
Breast	15 Cases	15 Whole	Tube	Sect			12	3				
Total for Pl	15 Cases	15 Whole	Tube	Sect			12	3				
HANDSCHUMACHER, ROBERT	HER, ROBERT											
Breast		16S	S97-7787	19/97				~				
Print Date: 7/17/98		base developed for	or the Pro	gram for C	ritical Tech	nologies	in Molecular Medic	Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B.	B. R. Levine	ne © 1997	97	

Program for Critical Technolog	ı for Criti	ical Tec	shnolo		issue	Dist	ribution R	ies Tissue Distribution Report "TB"	Re	port Per	Report Period: 7/97	86/9 -
(Samples distributed from tissue bank)	buted from tiss	ue bank)			Non-	Non	OCT Normal	OCT Tumor	FS	FS	d	į
Tissue Type		Acc	Accession #	Dist. Date	rozen Normal	Tumor	Whole Tube Sect.	Whole Tube Sect.	Normal	Slide	Snap Normaí	Snap
Breast	1 Cases	1 Whole	Tube	Sect				-				
Total for Pl	1 Cases	1 Whole	Tube	Sect								
Hochberg, Richard	HARD											
Breast		Ó	S97-7731	7/1/97						80		
Breast		Ø	S97-7733	712/97		-				ω		
Breast		Ø	S97-13661	19/97						ω		
Breast		Ø	S97-14012	7/14/97						80		
Breast	slides	Ó	S97-14061	7/15/97						80		
Breast		Ø	S97-14149	7/15/97						œ		
Breast	slides	Ø	S97-16601	8/19/97						∞		
Breast		Ø	S97-16744	8/20/97						∞		
Breast		S	S97-17031	8/25/97						œ		
Breast		ဟ	S97-17041	8/25/97						œ		
Breast		S	S97-17313	8/28/97						ω		
Breast		S	S97-18774	9/18/97						∞		
Breast		S	S97-19109	9/23/97						œ		
Breast		S	S97-19141	9/23/97		***				ω		
Breast		S	S97-19222	9/24/97					.,	œ		
Breast		S	S97-19412	9/26/97						ω		
Breast		S	S97-19666	9/30/97						œ		
Breast		S	S97-20120	10/6/97						80		
Breast		S	S97-21418	10/22/97						œ		
Breast		S	S97-24608	12/3/97						œ		
Breast		S	S97-24608	12/3/97						œ		
Breast		S	S97-24977	12/9/97						ω		
Breast		S	S97-24991	12/9/97						∞		
Print Date: 7/17/98		Database developed for the Progr	for the Pro	gram for C	itical Tech	nologies	in Molecular Medici	am for Critical Technologies in Molecular Medicine by C. L. Howe &	B. R. Levine	ne © 1997	97	

	b bonk))					L			
ed from tissu	Accession #	Dist. Date	Non- frozen Normai	Non- frozen Tumor	OCT Normal Whole Tube Sect.	OCT Tumor Whole Tube Sect.	FS Slide Normal	FS Slide Tumor	Snap Normal	Snap Tumor
	_	12/11/97						80		
	S97-25291	1/14/98						æ		
	S97-25311 ·	12/11/97		•				æ		
mass	S97-25311	1/14/98						80		
	S97-25790 12 ₁	12/17/97						æ		
	S97-25790	1/14/98						œ		
	S97-25937	12/18/97						œ		
	S97-25937	1/16/98						œ		
	S97-26159 12 ₁	12/22/97						ω		
mass	S97-26159 12 _/	12/22/97						∞		
	S98-184	1/14/98						œ		
	S98-1713	2/6/98						80		
	S98-3022	2/10/98						80		
	S98-3703	2/18/98						00		
	S98-3703	2/18/98						80		
	S98-3900	2/20/98						œ		
	S98-4027	2/23/98						œ		
	S98-4481	2/27/98						ω		
mass	S98-5141	3/9/98						ω		
	S98-5370	3/18/98						œ		
	S98-7061	4/6/98						œ		
	S98-7325	4/6/98						œ		
	S98-7472	4/7/98						∞		
	S98-7743	4/9/98						8		
47 Cases	0 Whole Tube	376 Sect						376		

Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine @ 1997 Print Date: 7/17/98

Program for Critical Technologies Tissue Distribution Report "TB"	ssue Dis	tribution Report "TB" Report Period: 7/97 - 6/98	86
(Samples distributed from tissue bank)		FS	
Tissue Type Accession # Dist. Date N	frozen frozen Normal Tumor	Whok	ું જુ જુ
Hoi PEi			
Breast S98-1141 1/16/98			
Breast S98-1176 1/16/98			
Breast 598-1324 1/19/98			
Breast S98-1362 1/20/98			
S98-1446 1		-	
S98-1640 1/2			
Breast 6 Cases 11 Whole Tube Sect		9 9	
Total for PI 6 Cases 11 Whole Tube Sect		9 2	
ip Kacınski, Barry			
S97-16373 8/14/97	-		
	-		
	<u>-</u>		
S97-24608 12/3/97	-		
Breast S97-24975 12/8/97	-		
Breast S97-25057 12/9/97	_		
Breast S97-25311 12/11/97	1		
Breast S98-1362 1/20/98	~		
Breast S98-1640 1/22/98	~		
Breast S98-3475 2/16/98	-		
Breast 10 Cases 17 Whole Tube Sect	7 10		
Total for PI 10 Cases 17 Whole Tube Sect	7 10		
KUCHERLAPATI. MIMI			
Breast 8/27/97		7 -	
Print Date: 7/17/98 Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe &	cal Technologies	in Molecular Medicine by C. L. Howe & B. R. Levine © 1997	

Progr	Program for Critical Technologi	ritical T	echnok		Fissue) Dist	ribution R	ies Tissue Distribution Report "TB"		port Per	Report Period: 7/97 - 6/98	- 6/98
(Samples	(Samples distributed from tissue bank)	tissue bank)			Non-	Non-	OCT Normal	OCT Tumor	FS	FS	ı	
Tissue Type	Je		Accession #	Dist. Date	frozen Normal	frozen	Whole Tube Sect.	Whole Tube Sect.	Slide Normal	Slide	Snap Normal	Snap Tumor
Breast			S96-2704	8/27/97				-				
Breast			S96-4104	8/27/97				1				
Breast	3 Cases	es 0 Whole	3 Tube	3 Sect				3 3				
Total for Pl	ol 3 Cases	s 0 Whole	3 Tube	3 Sect				3 3				
Pizzorno	Pizzorno, Guiseppe				2							
Breast			S97-24058 11 ₁	11/25/97	_	_						
Breast			S97-24608	12/3/97	-	~						
A Breast			S97-24975	12/8/97		-						
ed Breast			S98-3703	2/18/98								_
Breast	4 Cases	es 6 Whole	tube Tube	Sect	2	3						1
x 4, I	Pl 4 Cases	s 6 Whole	Tube	Sect	2	3						-
ж В Reiss, Міснаєї	CHAEL											
S Breast			S96-5683	11/11/97				1 11				
Breast			S96-5683	12/7/97				1 11				
Breast			S96-6365	11/11/97				1 1				
Breast			S96-6365	12/7/97				1 11				
Breast			S96-7457	11/11/97				1 11				
Breast			S96-7457	12/7/97				1 11				
Breast			S96-8335	11/11/97				1 11				
Breast			S96-8335	12/7/97				1 11				
Breast			S96-10337	711/11/97				1 11				
Breast			S96-10337	, 12/7/97				1 11				
Breast			S96-10541	11/11/97				1 11				
Breast			S96-10541	12/7/97				1 11				
Print Date: 7/17/98		atabase develo	ped for the Pr	ogram for C	ritical Tech	nologies	in Molecular Medici	Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine	B. R. Levir	ne © 1997	76	

	Program for C	Program for Critical Technologies Tissue Distribution Report "TB"	Fissue	Dis	tribution Rep	ort "TB"		port Per	Report Period: 7/97 - 6/98	- 6/98
	(Samples distributed from tissue bank)	tissue bank)	Non	Non	OCT Normal	OCT Tumor	1	æ		
	Tissue Type	Accession # Dist. Date	Normal	Tumor	Whole Tube Sect. Whole Tube Sect.	ole Tube Sect.	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor
	Breast	S96-10630 11/11/97				1				
	Breast	S96-10630 12/7/97				11				
	Breast	S96-10704 11/11/97				1				
	Breast	S96-10704 12/7/97				1 11				
	Breast	S96-11631 11/11/97				-				
	Breast	S96-11631 12/7/97				1-1-1-1				
	Breast	S96-11690 11/11/97				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	Breast	S96-11690 12/7/97				1-				
A	Breast	S98-7921 4/14/98	2	5						
.pp	Breast	S98-8467 4/21/98	2	5					•	
21										

		20 220	20 220	4 23 223
ۍ 	2	0	0	24 12
7	2	4	4	14 2
4/14/98	4/21/98	220 Sect	220 Sect	599 Sect
S98-7921	S98-8467	22 Cases 14 Whole 20 Tube	20 Tube	23 Tube
		14 Whole	14 Whole	66 Whl
		22 Cases	22 Cases	109 Cases
Breast	Breast	Breast	Total for PI 22 Cases 14 Whole 20 Tube 2	Grand Total 109 Cases

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Appendix 5: Frozen breast tissue available

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology Normal	DNA Normal	DNA Tumor
2/12/93	* S93-2570	Breast		ے	_				0	0					
2/15/93	S93-2661	breast		_	_	_			_	_					
2/17/93	S93-2790	Breast		_	_	_			_	-					
2/17/93	S93-2804	breast		_					_	0					
2/19/93	S93-2959	breast		_	_	_				_					x 5
3/5/93	S93-3831	Breast			_	->			_	_					ndix
3/8/93	S93-3935	breast		_	_	_			_						per
3/12/93	S93-4279	Breast							_	_					Аp
3/18/93	S93-4675	Breast		_		_			_						
3/22/93	S93-4776	Breast								_					
3/25/93	S93-5036	breast		_		_			_	_					
3/ <u>\$</u> 6/93	S93-5105	breast		_	_	_			_	_					
4/ <u>G</u> /93	* S93-5700	breast		_					_	_					8
4/8/93	S93-5860	breast		_	_	_				_					ge 5
4/42/93	* S93-6026	breast		_	_	_			-	_					Pag
4/ 0 6/93	S93-6323	breast								_					
4/201/93	S93-6575	breast		_	ω	4			N	4					Э.
4/29/93	S93-7087	breast				_									M.I
5/ 0 0/93	S93-7718	breast				_				_					ta I
5/25/93	S93-8598	breast				2				_					Cos
7/9/93	S93-11023	Breast				_				_					sé (
7/04/93	S93-11600	Breast		_	_				_	_					Jos
7/ 10 5/93	S93-11721	Breast		-	<u>د</u> ے	_			2	_					ort,
7(27/93	S93-12403	Breast				_				_					rep
8 /8 /93	S93-12734	Breast				_				_					ıal ı
8/2/93	S93-12800	Breast													nnu
8/2/93	S93-12894	Breast				_				_					A
8/193	S93-13145	Breast							_	0					
0 7/93	S93-13630	Breast		_	4	2			ω						
08 3/93	S93-13998	Breast		_					N	-3					
*	the complete are excitable for this patient from multiple cases and/or parts		•												

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Tissue Available

By Tissue Type

As of: July 17, 1998

			_				2	2	_		Breast	* S94-2455	2/10/94
							_	_	_		Breast	* S94-2186	2/7/94
			တ				ω				Breast	* S94-2137	2/7/94
			_								Breast	* S94-1799	2/1/94
											Breast	* S94-1799	2/15/94
				ω			ω	N	_		Breast	* S94-1665	1/28/94
			0								Breast	* S94-679	1/13/94
			_								Breast	S94-439	1/10/94
							_				Breast	S93-20981	12/20/93
			0				_				Breast	S93-20934	12/20/93
							2	_	_		Breast	S93-20268	12/09/93
							_	_	_		Breast	S93-20263	12/09/93
							2	_	_		Breast	S93-20068	12/9/93
											Breast	S93-19699	11/30/93
							_	_	_		Breast	S93-19661	11/30/93
							0	-			Breast	S93-19660	11/30/93
								_			Breast	S93-19650	11/30/93
							_				Breast	S93-18548	11/10/93
							N	2	_		Breast	S93-18541	11/10/93
								_			Breast	S93-16676	10/11/93
			_					_	_		Breast	S93-16650	10/11/93
											Breast	S93-16331	10/5/93
			0	Ν			ω		_		Breast	S93-16089	9/29/93
			Οī	0			ω				Breast	S93-15607	9/21/93
							2				Breast	S93-14850	09/08/93
							_				Breast	S93-14827	09/07/93
							_				Breast	S93-14743	09/07/93
			_	-					_		Breast	S93-14458	08/31/93
			0				œ				Breast	S93-14357	08/30/93
							N				Breast	S93-14328	08/30/93
Norma	Tumor Cytology Normal	Normal	Tumor	Normal	Tumor	Normal	Tumor	Normal	w/pairs	Cases	Tissue type	Type & No.	Frozen
2	Desire the second secon	7	2		Sir	2:15	2	7		7.4.		•	

* Tissue samples are available for this patient from multiple cases and/or parts.

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Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	DNA Cytology Normal	DNA Normal	DNA
2/11/94	* S94-2510	Breast		:					_						
2/15/94	* S94-2608	Breast				<u> </u>									
2/15/94	S94-2673	Breast				_				_					
2/17/94	S94-2792	Breast		_		4			2	_					
2/22/94	* S94-3094	Breast							2						: 5
2/23/94	* S94-3146	Breast		_	N	N				0					ndix
3/1/94	* S94-3527	Breast			4	ω									per
3/7/94	S94-3815	Breast								0					Ap
3/7/94	S94-3826	Breast							_						
3/9/94	* S94-3966	Breast		_	4	Οī			2	ω					
3/9/94	* S94-3972	Breast							2						
3/9/94	* S94-3989	Breast			ω	0			ω	8					
3/22/94	S94-4814	Breast				N									0
3/25/94	S94-5054	Breast			4	ω									ge 6
3/25/94	S94-5074	Breast		_	Οī	ω				0					Pag
3/28/94	S94-5176	Breast			_	_									
3/28/94	* S94-5198	Breast		_	N	_) .
4/12/94	* S94-6096	Breast		_	Οī	ω			0	0					M.L
4/12/94	S94-6154	Breast			-										ta N
4/15/94	S94-6301	Breast							&						Cos
4/15/94	S94-6374	Breast			2										sé (
5/11/94	* S94-8130	Breast			ω										Jos
5/16/94	S94-8349	Breast				_									ort,
6/3/94	* S94-9518	Breast		_	ហ	1				ᅩ					rep
6/10/94	* S94-10033	Breast		_											ıalı
6/14/94	S94-10172	Breast			_					0					nnu
6/15/94	S94-10235	Breast			4										Aı
7/6/94	* S94-11472	Breast		_	ω	N									
7/8/94	S94-11688	Breast		_	2	2									
7/15/94	* S94-12104	Breast			2										

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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											ļ				
Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
7/15/94	* S94-12126	Breast				_									
7/15/94	S94-12136	Breast		_	_	_									
7/22/94	* S94-12603	Breast		_	_	_									
7/26/94	S94-12778	Breast				ω									
7/27/94	S94-12912	Breast		_	2	N									: 5
8/1/94	S94-13117	Breast		_	_	_									ıdix
8/2/94	S94-13199	Breast		_	_	_									pen
8/9/94	S94-13631	Breast		_					_	_					Аp
8/11/94	* S94-13831	Breast			_										
8/31/94	S94-15063	Breast		_	_	_									
9/2/94	* S94-15249	Breast				_									
9/2/94	* S94-15249	Breast				_									
9/16/94	* S94-15938	Breast				_									1
9/21/94	* S94-16244	Breast			_										se 6
9/21/94	* S94-16244	Breast				8									Pag
10/7/94	S94-17299	Breast				8]
10/10/94	S94-17390	Breast				တ) .
10/13/94	S94-17451	Breast		_					_	_					M.I
10/13/94	S94-17659	Breast				_									ta N
10/17/94	S94-17822	Breast		_	ω	N									Cos
10/17/94	* S94-17899	Breast		_	2	_									sé (
10/18/94	* S94-17899	Breast				_									Jos
10/31/94	S94-18677	Breast			2	ω			0	0					ort.
11/1/94	* S94-18820	Breast			_										repo
11/1/94	* S94-18820	Breast									4				ıal 1
11/3/94	S94-18988	Breast		_	2	တ			0	0					nnu
11/3/94	S94-19004	Breast		_	_	_									Aı
11/7/94	S94-19163	Breast		_	2	2									
11/21/94	S94-20131	Breast			_										
11/30/94	* S94-20650	Breast		_					_	_					
* Tissue	camples are aw	Tissue samples are available for this nationt from multiple cases	of from mult	inla racac	and/or parts	7									

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal
12/7/94	S94-21123	Breast			2	_								
12/16/94	S94-21791	Breast		_	2	ω			0	0				
12/16/94	* S94-21796	Breast		_	_	_								
12/22/94	S94-22158	Breast		_					_	_				
12/28/94	S94-22349	Breast				8								
1/16/95	S95-792	Breast		_	_	>								
1/17/95	S95-876	Breast		_	_	_								
1/24/95	* S95-1352	Breast			ω									
1/31/95	S95-1852	Breast		_	N	2								
2/6/95	S95-2274	Breast										_		
2/7/95	* S95-2302	Breast		_	2	8								
2/15/95	* S95-2897	Breast			_									
2/22/95	* S95-2940	Breast			2	2								
2/27/95	* S95-2940	Breast				0		15						
2/16/95	* S95-2988	Breast				0		15						
2/22/95	* S95-2988	Breast			N	N			_	_				
2/24/95	* S95-3320	Breast			_									
2/22/95	* S95-3320	Breast			8									
2/27/95	* S95-3551	Breast				တ				_		_		
2/27/95	* S95-3551	Breast				15								
2/28/95	* S95-3684	Breast		_	N	N								
3/3/95	S95-3910	Breast		_					_	_				
3/6/95	S95-3998	Breast				0		15						
3/7/95	S95-4078	Breast				0		15						
3/7/95	* S95-4153	Breast				7				0				
3/8/95	* S95-4153	Breast		_							ω	ယ		
3/10/95	S95-4386	Breast			8	ω								
3/14/95	* S95-4556	Breast		<u> </u>	ω	ω								
3/17/95	S95-4893	Breast		_								_		
3/20/95	* S95-4921	Breast		_	_	_								

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available By Tissue Type

5/3/95	5/3/95	4/25/95	4/24/95	4/28/95	4/24/95	4/17/95	4/17/95	5/6/95	4/17/95	5/6/95	4/13/95	4/12/95	4/12/95	4/13/95	4/10/95	4/3/95	3/31/95	3/31/95	3/31/95	3/29/95	3/23/95	3/22/95	3/22/95	3/21/95	3/21/95	3/20/95	3/20/95	3/20/95	3/20/95	Date Frozen
S95-7408	S95-7359	* S95-7286	* S95-7215	* S95-7192	* S95-7192	S95-6687	S95-6664	* S95-6658	* S95-6658	S95-6657	* S95-6445	* S95-6445	S95-6435	* S95-6255	* S95-6255	S95-5798	* S95-5668	* S95-5668	* S95-5470	* S95-5257	* S95-5152	S95-5073	* S95-4997	* S95-4997	S95-4990	S95-4961	S95-4954	* S95-4952	* S95-4921	Accession Type & No.
Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Tissue type
																														Total Cases
		_	_			_	_		_				_		_			_		_	_	_		_	_	_	_			Cases w/pairs
		_	_		د	_	2					2	2		2	2		2			2	2		2	ω	2	2			OCT Normal
		_			_		2	0	_	0	0		-	0	ω	2	0	2	0		2	2	0	2	2	N	N	0	0	OCT Tumor
																														Slide Normal
								œ		8	15			15			15		15				15					14	13	Slide Tumor
															0															Snap Normal
															0															Snap Tumor
																				N										Paraffin Normal
2	4			N					_				_							ω										Paraffin Tumor
																														Cytology
																														DNA Normal
			A	nnı	ıal :	rep	ort,	, Jo	sé (Cos	ta l	M.I	Э.		Pag	ge 6	53					Аp	per	ndix	ς 5					DNA Tumor

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available

By Tissue Type

Date	Accession		Total	Cases	100	^¹ ឧ	Slide	Slide	Snap	Snap	Paraffin	Paraffin		DNA	DNA
5/1/95	* S95-7583	Breast	Cases	w/pairs	2	2	Normal	umor	Normal	lumor	Normal	lumor	Cytology Norman	Normal	umor
5/8/95	* S95-7583	Breast										_			
5/1/95	S95-7599	Breast		_	2	2						_			
5/1/95	* S95-7601	Breast		_	2	N						_			
5/5/95	* S95-7601	Breast										N			: 5
5/1/95	S95-7647	Breast		_	2	2									dix
5/17/95	* S95-8820	Breast		_	2	4									pen
5/25/95	S95-9166	Breast				0		15							$\mathbf{Ap}_{]}$
5/25/95	S95-9167	Breast				0		15							
5/24/95	* S95-9272	Breast		_		_									
5/25/95	* S95-9272	Breast				0		15							
5/26/95	S95-9486	Breast				_									
5/31/95	* S95-9729	Breast		_	တ	15									4
6/2/95	S95-9927	Breast				N									e 6
6/12/95	S95-10463	Breast		_	_	_									Pag
6/13/95	* S95-10548	Breast		_	2	N					_	_]
6/20/95	* S95-10548	Breast										2) .
6/14/95	* S95-10659	Breast		_	_	_						_			Λ.C
6/21/95	* S95-10659	Breast										_			ta N
6/16/95	S95-10798	Breast		_	_										Cos
6/21/95	* S95-11124	Breast		_	_	_									sé C
6/21/95	* S95-11124	Breast				0		15							Jos
6/21/95	* S95-11125	Breast									2	N			ort,
7/5/95	* S95-11125	Breast		~~							2	_			epo
6/23/95	S95-11240	Breast			_	_									al 1
6/26/95	* S95-11358	Breast				2									nnu
6/26/95	* S95-11358	Breast				0		15							Aı
6/27/95	S95-11427	Breast				0		15							
6/27/95	* S95-11445	Breast			2	_									
6/27/95	* S95-11445	Breast				0		15							
* Tissue	samples are ava	Tissue samples are available for this patient from multiple cases	rom multi	ole cases	and/or parts.	ts									
	partiples are ava	וומציל וכו נוווט למנוכות וו		Cases o	מותיליו למו	5									

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Tissue Available By Tissue Type

				0				ဖ	O1			Breast	* S95-16562	9/18/95
								ω	_	_		Breast	* S95-16148	9/11/95
									2	_		Breast	S95-15965	9/8/95
A						15		0				Breast	* S95-15854	9/6/95
nnu								2	N	_		Breast	* S95-15854	9/6/95
ıalı									2			Breast	S95-15789	9/6/95
rep		_						သ	ω	_		Breast	S95-15759	9/5/95
ort,								_	2			Breast	* S95-15484	8/30/95
Jos								4	œ	_		Breast	* S95-15465	8/30/95
sé (4				Breast	S95-14612	8/16/95
Cos								6	ω	_		Breast	* S95-14374	8/12/95
ta N								_	_	_		Breast	S95-14350	8/11/95
M.L			_	0				တ	თ	_		Breast	S95-14209	8/9/95
).								2	ω	_		Breast	* S95-14172	8/9/95
						15		0				Breast	* S95-14172	8/9/95
Pag								ω	•			Breast	S95-13963	8/7/95
ge 6									σ			Breast	S95-13293	7/26/95
55				ω				7				Breast	S95-13137	7/25/95
								N	2			Breast	S95-12647	7/18/95
						15		0				Breast	S95-12627	7/18/95
								N				Breast	S95-12253	7/12/95
								ΟΊ	ω	_		Breast	S95-12161	7/11/95
Ap		2	2	_	_			4	2	_		Breast	* S95-12114	7/10/95
pen								_				Breast	S95-11972	7/19/95
ıdix								_				Breast	S95-11962	7/6/95
: 5						15		0				Breast	S95-11921	6/21/95
						15		0				Breast	* S95-11746	6/27/95
								N	2	_		Breast	* S95-11746	6/30/95
				_	_					_		Breast	S95-11709	6/29/95
								2	2	_		Breast	S95-11610	6/28/95
Tumor	Cytology Normal	Parattin Tumor	Paraffin Normal	Snap Tumor	Snap Normal	Slide Tumor	Slide Normal	Tumor	Normal	Cases w/pairs	Total Cases	Tissue type	Accession Type & No.	Date Frozen

* Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available

By Tissue Type

9/26/95 9/22/95 9/22/95 9/19/95 9/19/95 9/18/95 11/3/95 11/6/95 Frozen 11/7/95 11/6/95 11/6/95 11/6/95 11/7/95 10/17/95 10/10/95 10/02/95 10/11/95 10/02/95 11/7/95 11/1/95 10/20/95 10/27/95 10/19/95 10/17/95 10/17/95 10/17/95 10/18/95 10/17/95 10/17/95 10/17/95 Date * S95-18398 * S95-18398 * S95-18398 * S95-18398 * S95-18398 * S95-17985 * S95-17513 * S95-16716 * S95-16562 * S95-19769 * S95-19769 * S95-19566 * S95-19426 S95-19643 S95-19426 S95-16716 S95-18259 S95-17513 S95-17500 Accession Type & No. S95-17122 S95-16934 S95-16934 S95-19703 S95-19703 S95-19577 S95-18666 S95-18603 S95-18603 S95-18434 S95-18434 Breast Tissue type Breast Cases Total Cases w/pairs Normal S O ω Tumor 8 0 0 Slide Normal Slide ᇊ 5 5 5 5 끙 5 5 ᇊ 5 15 15 ઠ 햐 Snap Normal 0 0 Snap Tumor 0 0 Paraffin Paraffin DNA Normal Tumor Cytology Normal Tumor Appendix 5 Page 66 Annual report, José Costa M.D.

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^{*} Tissue samples are available for this patient from multiple cases and/or parts.

1/3/96	12/22/95	12/19/95	12/19/95	12/19/95	12/19/95	12/19/95	12/19/95	12/19/95	12/12/95	12/12/95	12/12/95	12/11/95	12/11/95	12/11/95	12/8/95	12/8/95	11/28/95	11/28/95	11/22/95	11/21/95	11/20/95	11/17/95	11/17/95	11/15/95	11/15/95	11/14/95	11/14/95	11/14/95	11/10/95	Date Frozen
S96-77	* S95-22724	* S95-22591	S95-22583	* S95-22577	* S95-22577	* S95-22574	* S95-22574	S95-22566	S95-22156	* S95-22067	* S95-22067	* S95-22042	* S95-22042	* S95-22012	* S95-21877	* S95-21877	S95-21152	* S95-21114	S95-20952	* S95-20890	S95-20743	S95-20580	S95-20580	S95-20362	S95-20362	* S95-20273	* S95-20273	S95-20259	S95-20072	Accession Type & No.
1/3/96 S96-77 Breast 1	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Tissue type
																														Total Cases
 		_	_				_				_		>	_			_			_	_							_	_	Cases w/pairs
		2	2				_							_			_			_	_							2	_	OCT Normal
+	2	2	2	0	_	0	_	0	N	0		0	_	_	0	2	_	0	0	_		0	_	_	0	0	_	2	<u> </u>	OCT Tumor
																														Slide Normal
				15		15		15		15		15			15			15	15			15			15	15				Slide Tumor
																														Snap Normal
																														Snap Tumor
			_								_																			Paraffin Normal
_											_																			Paraffin Tumor
																														Cytology
																														DNA Normal
			A	nnu	ıalı	rep	ort,	Jos	sé (Cos	ta I	M.I	Э.		Pag	ge 6	7					Аp	per	ıdix	x 5					DNA

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available

By Tissue Type

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Tissue Available By Tissue Type

As of: July 17, 1998

								0	_			Breast	* S96-4873	3/15/96
								_	_	_		Breast	S96-4775	3/14/96
								15				Breast	* S96-4629	3/12/96
								_	_	_		Breast	* S96-4629	3/12/96
						15		0				Breast	* S96-4443	3/8/96
									_	_		Breast	* S96-4443	3/8/96
						15		0				Breast	* S96-4410	3/12/96
								_		_		Breast	* S96-4410	3/8/96
								2	2	_		Breast	* S96-4306	3/7/96
						15		0				Breast	* S96-4104	3/4/96
									_	_		Breast	* S96-4104	3/4/96
						10		0				Breast	* S96-4095	3/4/96
										>		Breast	* S96-4095	3/4/96
						15		0				Breast	* S96-4093	3/4/96
									_	_		Breast	* S96-4093	3/4/96
						20		0				Breast	* S96-3765	2/5/96
								_		_		Breast	* S96-3765	2/28/96
		_	-							_		Breast	* S96-362 4	2/27/96
		_	_							_		Breast	S96-3591	2/27/96
			_							_		Breast	* S96-3414	2/22/96
						Οī		0				Breast	S96-3344	2/21/96
								_	_	_		Breast	S96-3302	2/21/96
												Breast	* S96-3131	2/20/96
						10		0				Breast	* S96-3130	2/19/96
								_				Breast	* S96-3130	2/19/96
								_	0			Breast	S96-2709	2/12/96
								_	0			Breast	* S96-2704	2/12/96
						10		0				Breast	* S96-2595	2/9/96
		_	_						_	_		Breast	* S96-2595	2/9/96
						15		0				Breast	* S96-2538	2/8/96
<u> </u>	n Cytology	Paraffin Tumor	Paraffin Normal	Snap Tumor	Snap Normal	Slide Tumor	Slide Normal	OCT	OCT Normal	Cases w/pairs	Total Cases	Tissue type	Accession Type & No.	Date Frozen
1													-	

^{* *} Tissue samples are available for this patient from multiple cases and/or parts.

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Annual report, José Costa M.D.

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Tissue Available

By Tissue Type

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
5/6/96	S96-8236	Breast			1	_									
5/7/96	* S96-8335	Breast		_	N	<u> </u>						_			
5/7/96	* S96-8335	Breast				0		15							
5/7/96	* S96-8393	Breast		>	_	_									
5/7/96	* S96-8393	Breast				0		15							5
5/14/96	* S96-8852	Breast		_	_	_									ıdix
5/14/96	* S96-8852	Breast				0		15							pen
5/16/96	S96-8966	Breast			_						2				Ap:
5/16/96	* S96-9109	Breast			0	_									
5/17/96	S96-9194	Breast		_	_	_						_			
5/20/96	S96-9247	Breast		_	_	-1					_	_			
5/21/96	* S96-9385	Breast		_	_	N									
5/22/96	S96-9 4 25	Breast		_	N							-			1
5/24/96	* S96-9568	Breast		_							_	_			ge 7
5/14/96	S96-9588	Breast				0		15							Pag
6/17/96	* S96-9882	Breast				0		15]
6/3/96	S96-10119	Breast		_	2	N			0	0					Э.
6/3/96	* S96-10125	Breast		_	_	_									M.E
6/17/96	* S96-10125	Breast				0		15							ta N
6/5/96	* S96-10337	Breast			_	N						_			Cos
6/5/96	* S96-10337	Breast				0		15							sé (
6/7/96	S96-10389	Breast		_							_	_			Jos
6/7/96	S96-10485	Breast									_				ort,
6/7/96	* S96-10541	Breast		_	_	N			0	0	_	_			rep
6/7/96	* S96-10541	Breast				0		15							ıal 1
6/7/96	* S96-10547	Breast		_	2	_									nnu
6/17/96	* S96-10547	Breast				0		15							A
6/10/96	S96-10626	Breast		_	_	_									
6/10/96	* S96-10630	Breast				N						_			
6/17/96	* S96-10630	Breast				0		15							
* Tissue s	samples are ava	Tissue samples are available for this patient from multiple cases and/or parts	from multin	le cases	and/or pa	rts.							The state of the s		

* Tissue samples are available for this patient from multiple cases and/or parts.
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Tissue Available

By Tissue Type

Date	Accession		Total	Cases	S		Slide	Slide	Snap	Snap	Paraffin	Paraffin	ı	DNA	DNA
Frozen	Type & No.	Tissue type	Cases	w/pairs	Normal	Ş	Normal	lumor	Normal	lumor	Normal	lumor	Cytology Normal	Normal	umor
6/11/96	S96-10/04	Breast		_	N	N									
6/12/96	* S96-10799	Breast		_	8	_			0	0					
6/12/96	* S96-10821	Breast		_	_	_					-3	_			
6/17/96	* S96-10821	Breast				0		15							
6/14/96	* S96-10950	Breast		_	2	_					_	_			: 5
6/17/96	* S96-10950	Breast				0		15							dix
6/17/96	S96-10954	Breast				0		15							pen
6/18/96	S96-11174	Breast		_	_	_									Ap
6/19/96	S96-1120 4	Breast		_	_										
6/19/96	* S96-11227	Breast			0	_									
6/19/96	* S96-11227	Breast				0		15							
6/28/96	S96-11244	Breast				0		15							
6/19/96	* S96-11250	Breast				0		15							2
6/21/96	* S96-11434	Breast			0										;e 7
6/24/96	* S96-11566	Breast		_	_										Pag
6/25/96	* S96-11583	Breast		_	_	_]
6/25/96	* S96-11583	Breast				0		5) .
6/25/96	S96-11620	Breast				0		15							M,E
6/25/96	* S96-11631	Breast			_	_									ta N
6/25/96	* S96-11631	Breast				0		15							Cos
6/26/96	* S96-11690	Breast		_	N	ω				0					sé C
6/25/96	* S96-11690	Breast				0		15							Jos
7/1/96	* S96-11971	Breast		_	2	2									ort,
7/11/96	* S96-12529	Breast		_	2	ω									терс
7/17/96	* S96-12813	breast		_							N	2			ıal ı
7/18/96	S96-13032	Breast		_	2	N									nnu
7/19/96	S96-13104	breast		_	_	_			0	0					Aı
7/19/96	* S96-13116	Breast		_	_	N									
7/22/96	* S96-13200	Breast		_	_	_					_				
7/23/96	S96-13317	Breast				0									
* Ticello	samples are ave	* Tipped complete are excitable for this potient from multiple cases and/or parts	from multi	nlo cocco	and/ar no	}									

- * Tissue samples are available for this patient from multiple cases and/or parts.

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•	(1														
Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA
7/26/96	S96-13599	Breast		1	-1						_	_			
7/29/96	S96-13696	Breast		_					_	_					
8/2/96	S96-13819	Breast													
8/2/96	* S96-13994	Breast						15							
8/6/96	S96-14235	Breast						15							: 5
8/14/96	* S96-14677	Breast									_	_			ndix
8/13/96	* S96-14677	Breast						15							per
8/13/96	S96-14740	Breast						15							Ap
8/14/96	S96-14845	Breast		_	N	N					_	_			
8/15/96	S96-14933	Breast		_	2	N			0						
8/19/96	S96-15151	Breast						15							
8/20/96	S96-15209	Breast		_	_	_									
8/21/96	S96-15409	Breast				_									'3
8/22/96	S96-15429	Breast						30							ge 7
8/26/96	S96-15640	Breast				>									Pag
8/26/96	S96-15790	Breast		_	_	>					_	_			
8/30/96	S96-15924	Breast		_	_	_					>				Э.
9/3/96	* S96-16022	Breast						10							M.I
9/3/96	S96-16028	Breast		_	_	_									ta I
9/3/96	S96-16033	Breast				N									Cos
9/4/96	S96-16112	Breast		_	_										sé (
9/6/96	* S96-16318	Breast		_	_	_									Jos
9/6/96	* S96-16318	Breast						23							ort,
9/6/96	S96-16339	Breast			-	_									rep
9/10/96	S96-16496	Breast			2										ıalı
9/10/96	* S96-16568	Breast		_							_	_			nnu
9/12/96	* S96-16688	Breast		_					_	_					A
9/12/96	* S96-16688	Breast						15							
9/13/96	* S96-16829	Breast			2	2									
9/16/96	S96-16903	Breast							_	_					
* Tierro	samples are aw	or available for this potions from multiple one	t from multi	3	and/or norts	5				-					

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available

By Tissue Type

• !	10/25/96	10/23/96	10/23/96	10/22/96	10/22/96	10/22/96	10/22/96	10/21/96	10/21/96	10/18/96	10/14/96	10/11/96	10/11/96	10/11/96	10/4/96	10/1/96	10/1/96	9/30/96	9/27/96	9/24/96	9/24/96	9/24/96	9/24/96	9/23/96	9/20/96	9/20/96	9/18/96	9/17/96	9/16/96	9/16/96	Date Frozen
-	* S96-19724	* S96-19542	* S96-19542	* S96-19436	* S96-19436	* S96-19428	S96-19386	* S96-19355	* S96-19355	S96-19220	S96-18828	* S96-18669	* S96-18669	* S96-18604	S96-18242	S96-17934	S96-17930	S96-17850	S96-17780	* S96-17549	* S96-17549	* S96-17549	* S96-17478	S96-17383	S96-17314	S96-17260	* S96-17111	S96-17024	* S96-16915	* S96-16915	Accession Type & No.
	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Tissue type
																															Total Cases
			_						_				_	_		_	_					_		_	_			_		_	Cases w/pairs
:	_												_			_	_					ω		2						_	OCT Normal
` 	_			_					_		_		<u>~</u>			ω	_	2		_		N		_		N				_	OCT Tumor N
***																															Slide Normal
		15	20		15	15	15	15		15		15									15		15				15		5		Slide Tumor
			12																						_			_			Snap Normal
			1																						_			-			Snap Tumor
			2											_	_	_>															Paraffin Normal
			2											_	2	_															Paraffin Tumor
																															DNA Cytology Normal
																															DNA Normal
				A	nnu	ıal ı	rep	ort,	Jos	sé (Cos	ta N	M.E).]	Pag	ge 7	4					Αp	pen	dix	5					DNA Tumor

** Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available By Tissue Type

!	1/10/97	1/8/97	1/8/97	1/6/97	1/3/97	12/27/96	12/18/96	12/9/96	12/9/96	12/13/96	11/27/96	11/26/96	11/22/96	11/22/96	11/22/96	11/22/96	11/22/96	11/20/96	11/13/96	11/8/96	11/11/96	11/4/96	11/6/96	10/31/96	10/31/96	10/30/96	10/29/96	10/28/96	10/25/96	0,	Date Frozen
	S97-592	S97-359	S97-359	S97-180	S97-76	S96-23952	S96-23498	S96-22785	S96-22755	S96-22622	S96-22120	S96-21954	S96-21790	S96-21790	S96-21790	S96-21790	S96-21790	S96-21494	* S96-21002	* S96-20663	* S96-20663	S96-20282	S96-20209	* S96-20090	* S96-20090	S96-20019	S96-19905	S96-19839	S96-19738	* S96-19724	Accession Type & No.
	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Tissue type
																															Total Cases
	_							_	_		_	_	_		_		_				_		_		_			_	_		Cases w/pairs
	N		2	2				>	_			N	ω		4		4						_					_	N		OCT Normal
	N		N	2				_				2	ω	_	သ		ω						_		-			_	N	_	OCT Tumor N
																															Slide Normal
		15			15	15				15						15			15	15		15		15		15	တ				Slide Tumor
							_				_										_										Snap Normal
											_										->										Snap Tumor
															_			_													Paraffin Normal
															_			_													Paraffin Tumor
																															Cytology
																															DNA Normal
				A	nnı	ıal	rep	ort,	, Jo	sé (Cos	ta l	M.I	Э.		Pag	ge 7	15					Αŗ	pei	ndix	ς 5					DNA Tumor

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By Tissue Type issue Available

2/19/97 2/19/97 2/18/97 2/18/97 2/12/97 2/11/97 1/13/97 2/26/97 2/24/97 2/7/97 2/6/97 1/16/97 3/18/97 3/14/97 1/17/97 1/13/97 1/13/97 1/10/97 2/27/97 2/27/97 3/13/97 3/4/97 3/4/97 2/27/97 2/19/97 1/28/97 1/28/97 Frozen 2/27/97 1/28/97 1/27/97 Date S97-592 S97-3524 S97-2695 S97-2644 S97-1865 S97-1865 S97-1834 S97-1834 S97-975 S97-694 S97-694 S97-592 S97-5432 S97-5237 S97-5237 S97-5224 S97-5192 S97-4438 S97-4438 S97-4099 S97-4099 S97-3987 S97-3840 S97-3524 S97-3509 S97-3455 S97-3455 S97-3027 S97-2402 S97-1156 Type & No. Accession Breast Tissue type Cases Total w/pairs Cases Normal ်င္ပ Ν umor 200 N N 6 ω Slide Normal Slide Tumor 5 15 ᇊ 5 5 귱 5 5 15 5 5 5 Snap Normal 0 Snap Tumor ယ Paraffin Paraffin Normal Tumor N N N N Cytology Normal Tumor Page 76 Appendix 5 Annual report, José Costa M.D.

* Tissue samples are available for this patient from multiple cases and/or parts.

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Total Cases OCT OCT Slide Slide Snap Snap Paraffin Tissue type Cases w/pairs Normal Tumor Norma	Total Cases OCT OCT Slide Slide Snap Snap Paraffin Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal 1 1 1 15	Total Cases OCT OCT Slide Slide Snap Snap Paraffin Paraffin Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal Tumor 1 1 1 15	Total Cases OCT OCT Slide Slide Snap Snap Paraffin Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal 1 1 1 15
w/pairs Normal Tumor Normal Tumor Normal Tumor 1 1 1 15 15 1 1 1 1 1 1 1 1 1 1 1 1 1	w/pairs Normal Tumor Normal Tumor Normal 1 1 1 1 1 15 1 1 1 1 1 1 1 1 1	w/pairs Normal Tumor Normal Tumor Normal Tumor 1 1 1 1 15	w/pairs Normal Tumor Normal Tumor Normal Tumor Cytology 1 1 1 15 1 1 1 1 2 2
OCT OCT Slide Slide Snap Snap Normal Tumor Normal Tumor Normal Tumor Normal Tumor 1 1 1 1 1 15 1 1 2 2 15 2 3	OCT OCT Slide Slide Snap Snap Paraffin Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal 1 1 15 1 1 2 2 2 15 2 3	OCT OCT Slide Slide Snap Snap Paraffin Paraffin Normal Tumor Normal Tumor Normal Tumor Normal Tumor 1 1 15 1 1 1 2 2 15 2 3	OCT OCT Slide Slide Snap Snap Paraffin Paraffin Normal Tumor Normal Tumor Normal Tumor Normal Tumor Cytology 1 1 15 1 1 2 2 3 15
OCT Slide Slide Snap Snap Tumor Normal Tumor Normal Tumor 1 1 15 1 15 1 15 15 15 15 15 15 16 17 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	OCT Slide Slide Snap Snap Paraffin Tumor Normal Tumor Normal Tumor Normal 1 1 15 1 15 1 15 2 15 3 15	OCT Slide Slide Snap Snap Paraffin Paraffin Tumor Normal Tumor Normal Tumor Normal Tumor 1 1 15 1 2 15 3 1 15	OCT Slide Slide Snap Snap Paraffin Tumor Normal Tumor Normal Tumor Normal Tumor Cytology 1 15 1 15 1 15 1 15 1 15 15
Slide Slide Snap Snap Normal Tumor Normal Tumor 15	Slide Slide Snap Snap Paraffin Normal Tumor Normal Tumor Normal 15	Slide Slide Snap Paraffin Paraffin Normal Tumor Normal Tumor Normal Tumor	Slide Slide Snap Snap Paraffin Paraffin Normal Tumor Normal Tumor Cytology 15 15
Slide Snap Snap Tumor Normal Tumor 15	Slide Snap Snap Paraffin Tumor Normal Tumor Normal 15	Slide Snap Snap Paraffin Paraffin Tumor Normal Tumor Normal Tumor 15	Slide Snap Snap Paraffin Paraffin Tumor Normal Tumor Normal Tumor Cytology 15 15 15 17 18 19 19 19 19 19 10 11 11 11 12 13 14 15 15 15 16 17 18 18 19 19 19 19 19 19 19 19
Snap Snap Normal Tumor	Snap Snap Paraffin Normal Tumor Normal	Snap Snap Paraffin Paraffin Normal Tumor Normal Tumor	Snap Snap Paraffin Paraffin Normal Tumor Normal Tumor Cytology 1 1 1
Snap Tumor	Snap Paraffin Tumor Normal	Snap Paraffin Paraffin Tumor Normal Tumor	Snap Paraffin Paraffin Tumor Normal Tumor Cytology 1 1 1
I	Paraffin Normal	Paraffin Paraffin Normal Tumor	Paraffin Paraffin Normal Tumor Cytology
Paraffin Normal		Paraffin Tumor	Paraffin Tumor Cytology
	1	Paraffin Tumor	Paraffin Tumor Cytology

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Tissue Available

By Tissue Type

Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology Normal	DNA Normal	Tumor Tumor
6/4/97	S97-7337	Breast						15							
6/17/97	S97-7340	Breast			_	_									
6/17/97	S97-7340	Breast						15							
6/10/97	S97-7342	Breast		_	2	2									
6/17/97	S97-7343	Breast		_	_	_									: 5
6/17/97	S97-7343	Breast						15							ıdix
6/17/97	S97-7377	Breast						15							pen
6/27/97	S97-7378	Breast		_							_	_			Ap
6/27/97	S97-7378	Breast						15							
6/10/97	S97-7441	Breast		_					_	_					
6/30/97	S97-7492	Breast		_	_	_									
6/30/97	S97-7492	Breast						15							
6/27/97	S97-7731	Breast						15							8
7/2/97	S97-7733	Breast						15							ge 7
7/9/97	S97-7787	Breast		_	ω	ω									Pag
7/10/97	S97-7788	Breast		_	4	4			_	_]
7/14/97	S97-7793	Breast		_	ω	N									Э.
7/9/97	S97-13661	Breast						15							M.I
7/10/97	S97-13835	Breast						23							ta N
7/14/97	S97-13980	Breast						23							Cos
7/14/97	S97-14012	Breast						15							sé (
7/15/97	S97-14061	Breast						15							Jos
7/15/97	S97-14149	Breast						15							ort,
7/17/97	S97-14308	Breast		_		_									repe
7/17/97	S97-14308	Breast				-3									ıal 1
7/22/97	S97-14696	Breast		_							2	2			nnu
7/23/97	S97-14748	Breast		_	_										Aı
7/24/97	S97-14835	Breast		_	_	_									
7/30/97	S97-15245	Breast		_	-										
8/1/97	S97-15466	Breast		_	_	_									
* Tissue s	amples are ava	Tissue samples are available for this patient from multiple cases and/or parts.	rom multip	ole cases	and/or par	ਹੈ									
	41. p. co a. c	The second secon	, C	4.0	A	•									

ritsue samples are available for this patient from multiple cases and/or parts.

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IVDE & No.	Tissue type	Cases	w/pairs	Normal	Tumor	Normal	Tumor	Snap Normal	Snap	Paramin Normal	Parattin Tumor	Cytology		Tumor
S97-16199	Breast		→	2	2					2	2			
S97-16373	Breast		_							_	<u> </u>			
S97-16601	Breast		_	_	-			_	_					
S97-16678	Breast		_	2	2									
S97-16744	Breast						15							5
S97-16938	Breast			_										dix
S97-16976	Breast		_	_	_									pen
S97-17031	Breast		_	2	2									Apj
S97-17031	Breast						15							
S97-17041	Breast						15							
S97-17134	Breast		_	2	N									
S97-17313	Breast		_		_									
S97-17313	Breast						15							9
S97-18053	Breast		_	_	_									e 7
S97-18598	Breast			_	_									Pag
S97-18774	Breast								4		_]
S97-18774	Breast						15) .
S97-19109	Breast						15							И.D
S97-19141	Breast						15							ta N
S97-19222	Breast						15							Cost
S97-19398	Breast							N	4					sé C
S97-19412	Breast						15							Jos
S97-19494	Breast								Ν					ort,
S97-19666	Breast						15							ерс
S97-20120	Breast						15							al r
S97-21285	Breast						15							nnu
S97-21296	Breast		_	-										Aı
S97-21418	Breast						15							
S97-21876	Breast		_	N	2									
S97-22269	Breast		_	2	2									
amples are ava	ilable for this patient	from multi		and/or par	is				:	, ! ;				
	S97-16199 S97-16373 S97-16601 S97-16678 S97-16678 S97-16976 S97-17031 S97-17031 S97-17031 S97-17313 S97-17313 S97-18774 S97-18774 S97-19109 S97-19141 S97-1922 S97-19494 S97-19494 S97-19494 S97-21285 S97-21286 S97-21418 S97-21296 S97-21418 S97-21269 ampless are ava	Sy7-16199 Breast S97-16373 Breast S97-16601 Breast S97-16678 Breast S97-16678 Breast S97-16678 Breast S97-16976 Breast S97-17031 Breast S97-17031 Breast S97-17031 Breast S97-177313 Breast S97-17313 Breast S97-17313 Breast S97-18774 Breast S97-18774 Breast S97-19109 Breast S97-19411 Breast S97-19422 Breast S97-19422 Breast S97-19494 Breast S97-19494 Breast S97-19494 Breast S97-194966 Breast S97-20120 Breast S97-21286 Breast	S97-16199 Breast S97-16601 Breast S97-16601 Breast S97-16678 Breast S97-16678 Breast S97-16976 Breast S97-16976 Breast S97-17031 Breast S97-17031 Breast S97-17031 Breast S97-17313 Breast S97-17313 Breast S97-17313 Breast S97-18598 Breast S97-18598 Breast S97-18774 Breast S97-18774 Breast S97-19109 Breast S97-19141 Breast S97-19412 Breast S97-19442 Breast S97-19442 Breast S97-19494 Breast S97-19494 Breast S97-20120 Breast S97-21285 Breast S97-21285 Breast S97-21296 Breast S97-21296 Breast S97-21296 Breast S97-21296 Breast S97-21289 Breast	97-16199 Breast 1 97-16373 Breast 1 97-16601 Breast 1 97-16601 Breast 1 97-16678 Breast 1 97-16938 Breast 1 97-16938 Breast 1 97-17031 Breast 1 97-17031 Breast 1 97-17041 Breast 1 97-17313 Breast 1 97-17313 Breast 1 97-18598 Breast 1 97-18774 Breast 1 97-19109 Breast 1 97-19141 Breast 1 97-19412 Breast 1 97-19422 Breast 1 97-19444 Breast 1 97-19456 Breast 1 97-21286 Breast 1 97-21296 Breast 1 97-21296 Breast 1 97-21296 Breast 1 97-22269 Breast 1		Normal III 2 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	and/or part	Normal lumor Norma	Normal lumor Normal lumor No. 2 2 2 15 15 15 15 15 15 15 15 15 15 15 15 15	Normal lumor Norma	Normal lumor Norma	Normal lumor Nor	Normal lumor Normal lumor Normal lumor 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Normal lumor Normal lumor Kyelogy Normal 2

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Date	Accession	4	Total	Cases	OCT	OCT	Slide	Slide	Snap	Snap	Paraffin	Paraffin	DNA Normal	DNA	T DNA
11/5/97	S97-22518	Breast								i	_	_			
11/13/97	S97-23151	Breast		_	N					2					
11/14/97	S97-23233	Breast		_	ω	СI									
11/19/97	S97-23553	Breast		_							_	_			
11/21/97	S97-23569	Breast		_							ω	ω			
11/20/97	S97-23692	Breast		_	_	-									
11/20/97	S97-23692	Breast						15							
11/25/97	S97-24058	Breast		_	_	_									
11/25/97	S97-24087	Breast		_	2	N									
12/2/97	S97-24541	Breast			ω	ω									
12/3/97	S97-24608	Breast		_	(Ji	ΟΊ		15							
12/3/97	S97-24608	Breast		_	_	_									
12/3/97	S97-24608	Breast						15							
12/5/97	S97-24877	Breast				_									
12/8/97	S97-24975	Breast				7									
12/9/97	S97-24977	Breast						15							
12/9/97	S97-24991	Breast						15							
12/9/97	S97-25057	Breast								2					
12/11/97	S97-25291	Breast		_						_					
12/11/97	S97-25291	Breast						15							
1/14/98	S97-25291	Breast						15							
12/11/97	S97-25311	Breast		_	_	_									
12/11/97	S97-25311	Breast						15							
12/11/97	S97-25311	Breast						15							
12/12/97	S97-25439	Breast			ហ	5 1									
12/15/97	S97-25573	Breast		_		_									
12/15/97	S97-25573	Breast						15							
12/17/97	S97-25790	Breast		_	_	_									
12/17/97	S97-25790	Breast						15							
12/17/97	S97-25790	Breast													

^{* *} Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available
By Tissue Type

Frozen	Type & No.	Tissue type	Cases	w/pairs	Normal	Tumor	Normal	Tumor	Normal	Tumor	Normal	Tumor	Cytology Normal	Normal	Tumor
12/18/97	S97-25937	Breast						15							
12/18/97	S97-25937	Breast						15							
12/22/97	S97-26159	Breast						15							
12/22/97	S97-26159	Breast						15							
12/23/97	S97-26296	Breast						15							: 5
1/6/98	S98-184	Breast			_	_									ıdix
1/14/98	S98-184	Breast						15							pen
1/8/98	S98-441	Breast		_	2	N									Αp
1/13/98	S98-832	Breast		_		_			_	_					
1/13/98	S98-857	Breast		>		_			_	_					
1/14/98	S98-945	Breast		_	2	N			_	_					
1/14/98	S98-987	Breast		_	2	N				_	_	_			
1/16/98	S98-1141	Breast		_	_				0	0					1
1/16/98	S98-1176	Breast		_		_			0	0					ge 8
1/19/98	S98-1324	Breast		_					_	_					Pag
1/20/98	S98-1345	Breast			_										
1/20/98	S98-1362	Breast		_	8				0	0					Э.
1/20/98	S98-1446	Breast			N	N			0	0	_	_			M.E
1/22/98	S98-1640	Breast		_	_	_			0	0					ta N
1/23/98	S98-1713	Breast		_		_		15			_	-			Cos
2/2/98	S98-2409	Breast		_					_	_					sé (
2/12/98	S98-3148	Breast		_					_	_					Jos
2/16/98	S98-3475	Breast			_	_									ort,
2/18/98	S98-3703	Breast		-	25	_				0					rep
2/18/98	S98-3703	Breast						15							ıalı
2/20/98	S98-3900	Breast		_	2	2									nnu
2/20/98	S98-3900	Breast						15							Aı
2/23/98	S98-4027	Breast		_	_										
3/2/98	S98-4027	Breast						15							
3/2/98	S98-4481	Breast						15							

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											:		į		
Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
3/2/98	S98-4666	Breast		- 1							ω	ω			
3/9/98	S98-5141	Breast						15							
3/11/98	S98-5370	Breast		_	N	N									
3/11/98	S98-5370	Breast						15							
3/11/98	S98-5370	Breast						15							x 5
3/16/98	S98-5753	Breast			ω	ω									ndix
3/23/98	S98-6260	Breast						15							per
3/27/98	S98-6623	Breast		_							_	_			Аp
3/27/98	S98-6623	Breast						15							
3/31/98	S98-6884	Breast		_	N	N									
3/31/98	S98-6943	Breast		_		_									
4/6/98	S98-7061	Breast						15							
4/6/98	S98-7325	Breast						15							32
4/7/98	S98-7455	Breast		_					_	>					ge 8
4/7/98	S98-7465	Breast		_	_	_									Pag
4/7/98	S98-7472	Breast						15							
4/9/98	S98-7743	Breast		_	_	_									Э.
4/9/98	S98-7743	Breast						15							M.I
4/14/98	S98-7921	Breast			_	_									ta l
4/20/98	S98-8386	Breast						15							Cos
4/22/98	S98-8386	Breast						15							sé (
4/21/98	S98-8467	Breast							_						Jo
4/27/98	S98-8914	Breast							_	_	_	_			ort,
4/28/98	S98-8995	Breast						15							rep
4/30/98	S98-9251	Breast		_					_	_					ıal
5/1/98	S98-9396	Breast		_											nnu
5/7/98	S98-9772	Breast		_	_	_									A
5/8/98	S98-9892	Breast		_	_	_									
5/13/98	S98-10105	Breast		_							2	N			
5/15/98	S98-10454	Breast		_	2	ω		15			_	_			
* Ticciio	amnles are av	* Tissue samples are available for this nationt from multiple cases and/or parts	t from multii	ole cases	and/or par	7									,

^{* *} Tissue samples are available for this patient from multiple cases and/or parts.

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	6/19/98	6/18/98	6/16/98	6/12/98	5/29/98	5/26/98	5/26/98	5/21/98	5/15/98	5/15/98	Date Frozen	
	S98-13197	S98-13103	S98-12871	S98-12666	S98-11482	S98-11190	S98-11171	S98-10939	S98-10542	S98-10485	Accession Type & No.	
TOTALS:	Breast	Tissue type										
760											Total Cases	
391	_				_						Cases w/pairs	
600	_		_	2	_						Cases OCT w/pairs Normal	
760	_		_	2	_	2	2				OCT Slide Tumor Normal	:
_											Slide Normal	
3477		5						15		15	Slide Tumor	
102	_								_		Snap Normal	
117	_										Snap Tumor	
104					_						Snap Paraffin Paraffin Tumor Normal Tumor	
125					_						Paraffin Tumor	
											Paraffin DNA Tumor Cytology Normal	
											DNA Normal	
3			Ap	pei	ndix	x 5					Tumor	

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^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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